CONTENTS OF SUPPLEMENT.

PERSONALS 25
ENGINEERING SOCIETIES 25
Coming Technical Meetings 25
CONSTRUCTION NEWS:
Condensed List of Contracts Pending 25
Railways 26
Street and Electric Railways 26
Electric Light and Power 27
Bridges 27
Buildings 27
Water-Works 28
Irrigation 30
Sewerage 30
Garbage Disposal and Street Cleaning 30
Streets and Roads 30
Manufacturing Plants 31
Mining 31
Contract Prices 31
Miscellaneous Contracts 31

PERSONALS.

Capt. John. A. Shannon has been elected City Engineer of Oskaloosa, Ia.

Mr. George V. Alsop has been elected City Engineer of Newport News, Va.

Mr. John P. Fiscus, President of the Dunlap Coal & Coke Co., died July 15.

Mr. F. A. Ruhe was recently elected a Water Commissioner of Allentown, Pa.

Mr. J. R. Sanford, civil engineer, of Cooperstown, Mich., died July 3, aged 91.

Mr. N. H. Brown, Train Master of the Texas Central R. R., has been appointed Superintendent of Transportation.

Mr. John N. Gamewell, the inventor of the Gamewell fire-alarm system, died in Hackensack, N. J., July 19, aged 74.

Col. F. S. Benson has been appointed Chief Engineer, and Mr. Thomas E. Byrne, Superintendent of Street Mains of the Brooklyn Union Gas Co., Brooklyn, N. Y.

Mr. J. P. Head, Foreman in Bridge and Building Department of the Texas Central R. R., has been appointed Road Master.

Mr. Thomas J. Cree, civil engineer on the Boston & Maine R. R., was married to Miss Etta B. Stebbins, of St. Johnsbury, Vt., on July 8.

Mr. Aurin Wood, an inventor and for many years head of the ironworking tool firm of Wood, Light & Co., died in Worcester, Mass., July 19, aged 84.

Mr. Hiram P. Randall, civil engineer, of Indianapolis, Ind., died July 14, aged 89. He was born in Boston, Mass., and for many years was Assessor of Indianapolis.

Mr. J. D. Higgins, Superintendent of the Rome Gas Light Co., Rome, N. Y., has resigned, and Mr. Stephen Parrish, of New York city, has been elected to succeed him.

Mr. Joseph McWilliams, Engineer and Superintendent of the Texas Central R. R., has resigned to accept service with another company, and the office has been abolished.

Mr. W. T. Gould, Resident Engineer of the Texas Central R. R., has been placed in charge of all engineering and construction, under the direction of the General Manager.

Mr. W. F. R. Mills has been appointed General Superintendent of the Denver, Lakewood & Golden R. R. to succeed Mr. J. B. McCormic, with headquarters at Denver, Colo.

Mr. L. D. Badger, Roadmaster of the Fitchburg R. R., with headquarters at Mechanicsville, N. Y., has resigned. Mr. Thos. Casey, of Waltham, Mass., is filling the position temporarily.

Mr. Bascom Sykes was elected City Surveyor of Portsmouth, Va., instead of City Engineer of Norfolk, Va., as stated in our issue of July 9. Mr. W. T. Brooke continues to be City Engineer of Norfolk.

Mr. W. F. Holloway has resigned his position as a member of the Board of Water-Works and Electric Light Trustees of Columbiana, O., and Mr. John E. Allen has been appointed to succeed him.

Mr. W. S. Frisbey, surveyor and civil engineer, representing Messrs. Geo. A. Ogle & Co., of Chicago, Ill., atlas publishers, was drowned while bathing in the Chippewa River, near Durand, Wis., July 14.

Mr. Joseph Downey, Commissioner of Buildings, of Chicago, Ill., has been appointed Commissioner of Public Works to succeed Mr. William D. Kent, whose resignation was noted in our issue of May 21.

Mr. J. W. Lovett, Superintendent of Bridges and Buildings of the Fifth Division of the Southern Ry., has been appointed to a similar position on the Georgia Midland & Gulf R. R., to succeed Mr. J. B. Glover.

Mr. J. S. Lemond, Roadmaster of the Fifth Division of the Southern Ry., has been appointed to succeed Mr. J. B. Glover as Roadmaster of the Georgia Midland & Gulf R. R., with headquarters at Columbus, Ga.

Mr. H. L. White, of the firm of White & Wetherbee, civil engineers of Brockton and Braintree, Mass., was married July 16 to Miss Grace W. Emery, of Wollaston, Mass. Mr. White is a member of the Boston Society of Civil Engineers.

Mr. H. M. Warren has been elected President and Treasurer, Mr. A. E. Jenks, Vice-President, and Mr. T. C. McNeely, Secretary and General Agent of the new Hendersonville & Brevard Ry., with headquarters at Hendersonville, N. C.

Mr. James M. Barr, General Superintendent of the Great Northern R. R., with headquarters at St. Paul, Minn., has been ordered to perform the duties of General Manager in place of Mr. Charles H. Warren. Mr. Barr will retain, however, his present title.

Mr. John Vanderslice, who has filled the position of Shop Superintendent of the Pottsville Bridge Co., Pottsville, Pa., for the past 5½ years, has accepted a similar position with the Carnegie Steel Co. and will have charge of the Keystone Bridge Shops.

Mr. Charles R. Barnes, City Electrician of Rochester, N. Y., having charge of the fire-alarm telegraph system and the electric lighting of the city, has been appointed Consulting Electrical Engineer and Electrical Expert to the Railroad Commission of New York State.

M. Jules Guichard, one of the associates of M. Ferdinand de Lesseps in the Suez Canal project, died recently aged 70. He was a member of the French Senate and after the resignation of Count de Lesseps was elected a Vice-President of the Suez Canal Co.

Mr. Clarence R. Neher, formerly Division Engineer of the New York & Pennsylvania R. R., has been appointed Resident Engineer of the Erie Canal at Rochester, N. Y., to succeed Mr. Alfred T. Jones, whose resignation was noted in our issue of July 2.

Capt. Smith S. Leach, Corps of Engineers, U. S. Army, has been relieved from duty at Burlington, Vt., where he has been in charge of the river and harbor improvements, and has been placed in charge of similar work at New London, Conn. Maj. William S. Stanton will succeed him at the former place.

Mr. Nehemiah S. Bean, the inventor and builder of the first steam fire engine ever constructed in New England, died at Manchester, N. H., July 20, aged 78. He was an ex-Chief Engineer of the Manchester fire department, and at one time was in charge of the locomotive works of the Essex Mfg. Co., of Lawrence, Mass.

Mr. John Brunner has resigned his position as Assistant to Chief Engineer of the Carnegie Steel Co., Pittsburg, Pa., and has been appointed by Mr. E. M. Bigelow, Director of Public Works of that city, to examine the suspension bridge across the Monongahela River and to prepare plans and specifications for the reconstruction of the same.

Mr. Ernest G. Barrow, Assistant City Engineer of Hamilton, Ont., has been appointed City Engineer to succeed Mr. William Haskins, whose death was announced in our last issue. Mr. Barrow, although only appointed Assistant City Engineer six years ago, has assisted Mr. Haskins for the past 20 years. He is a native of England and a member of the Canadian Society of Civil Engineers.

Mr. Oscar Lowinson, Jun. Am. Soc. C. E., 39 Cortlandt St., N. Y., is engaged on a series of tests on the transverse crushing strength of full-sized specimens of timber taken from buildings which are being strengthened. The object is to obtain such values as might be considered safe in determining the safety of existing structures, such as bridges and buildings where a question frequently arises as to the life of the same and the advisability of reconstructing.

Mr. Albert Stanwood, at one time a member of the Board of Water Commissioners of Boston, Mass., died at Waterford, Me., July 20, aged 72. His connection with the water department began more than 40 years ago. In 1856 he resigned as the Superintendent of the Eastern Division and became the Superintendent of the Western Division of the Department, resigning the latter position in 1873. From 1883 he served continuously as a member of the board.

Mr. Andrew Rinker, formerly City Engineer of Minneapolis, Minn., has accepted and entered upon the duties of Engineer and General Agent of the Great Falls Water-Power & Townsite Co., of Great Falls, Mont. This company owns the water-power created by the Missouri River for a distance of about 10 miles below the city of Great Falls, in which distance the river has a total fall of over 400 ft. and includes Black Eagle, Rainbow and Great Falls. (For a complete account of this plant see Eng. News for July 19, 1894.)

Mr. Henry I. Bliss, M. Am. Soc. C. E., of La Crosse, Wis., died recently aged 65. He was born in Hartford, Conn., and graduated frim Yale College in 1853 as a civil engineer. He assisted in surveying the New York & Boston Air Line R. R. and, after going west, was engaged in the survey of the Milwaukee & Fond du Lac R. R., the La Crosse & Prairie du Chien R. R., Southern Minnesota R. R. and several other preliminary and trial lines. In 1858 he located at La Crosse and formed a partnership with Mr. George Gregory and later with Mr. Wallace M. Spear. From 1860 to 1884 Mr. Bliss was City Engineer of La Crosse and was instrumental in having many valuable improvements made in the various public works of the city.

Hon. Arthur Sewall, the Democratic nominee for Vice-President of the United States, is a prominent resident of Bath, Me., where he was born in 1835. He was trained as a carpenter's apprentice in his father's ship-yard, and in 1858 became associated with his brother, Mr. Edward Sewall, under the firm name of E. & A. Sewall, as successors to their father as shipbuilders. Upon the death of Mr. Edward Sewall, about 20 years later, the firm name was changed to A. Sewall & Co., the members being the sons and nephew of the senior partner. This firm has built several of the largest wooden ships afloat, one being the "Roanoke," a leader in tonnage of that class of the merchant marine. Three years ago, at great expense, the firm changed their wooden shipbuilding plant to one for steel shipbuilding, and soon after built the "Dirigo," the only steel merchant sailing vessel built in the United States. Mr. Sewall was the President of the Maine Central R. R. and a Director of the Boston & Maine R. R. for a number of years. He is President of the Maine Water Co., a concern that controls water plants in seven large towns and cities of Maine, and he is also a member of the Bath Board of Trade.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

SOUTHERN AND SOUTHWESTERN RAILWAY CLUB.
Aug. 20. Kimball House, Atlanta, Ga.

SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.
Aug. 20 to 22. Annual meeting at Buffalo, N. Y.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.
Aug. 24. The annual meeting will be held in Buffalo, N. Y. Secy., Prof. F. W. Putnam, Cambridge, Mass.

AMERICAN MATHEMATICAL SOCIETY.
Aug. 31 to Sept. 1. Annual meeting at Buffalo N. Y.

ROADMASTERS' ASSOCIATION OF AMERICA.
Sept. 8. Annual meeting to be held at Niagara Falls, N. Y.

RAILWAY SIGNALLING CLUB.
Sept. 8. Secy., Geo. M. Bashford, The Rookery Bldg., Chicago.

AMERICAN STREET RAILWAY ASSOCIATION.
Oct. 24 and 25. Annual convention will be held in St. Louis.

CIVIL ENGINEERS' CLUB OF CLEVELAND, O.—At the regular meeting held Tuesday evening, July 14, a paper was read by Mr. H. F. J. Porter, of Chicago. It was illustrated by lantern slides of photos and drawings and gave a description of the plant of the Bethlehem Iron Co., at South Bethlehem, Pa., and the company's processes in the production of large forgings.

F. A. Coburn, Secy.

WESTERN FOUNDRYMEN'S ASSOCIATION. — The regular meeting of the association was held at the Great Northern Hotel, Chicago, Ill., July 15, and a paper on "The Practical Value of the Various Metalloids in Cast Iron" was read by Maj. Malcolm McDowell. The author called attention to the lack of definite knowledge on this subject and proposed a series of careful tests and experiments to determine definitely if possible the action of metalloids in various proportions and combinations. After some discussion the association voted that a special committee be appointed to carry out a series of experiments of the character suggested by the paper. This committee consists of Mr. A. Sorge, Jr., Maj. Malcolm McDowell and Mr. John K. Mackenzie. It was announced that there would be no meeting of the association in August and that the September meeting would be held at Cleveland, O.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
July 23.	Asphalt paving	St. Paul, Minn.	July 16
July 23.	Steel bridges (2)	Nashville, Tenn.	July 16
July 23.	Laying water mains (25 Sts.)	Chicago	July 16
July 23.	Steel bridges (2)	Worthington, Minn.	July 16
July 23.	Asphalt paving	New York, N. Y.	July 16
July 23.	Macadam road	Cromwell, Conn.	July 16
July 23.	Sewers	Brooklyn, N. Y.	July 16
July 23.	Laying 20-in. water main	Buffalo, N.Y.	July 16
July 23.	Light station	Portland, Ore.	July 2
July 23.	Township house	East St. Louis, Ill.	May 28
July 23.	Plans for bridge	Brooklyn, N. Y.	July 2
	Advertised, Eng. News, July 2 to 16.		
July 24.	Repairs to breakwater	Burlington, Vt.	June 25
	Advertised, Eng. News, June 25 to July 16.		
July 24.	Addition to mission	San Luis Obispo, Cal.	July 9
July 24.	Brick paving	Grand Forks, N. Dak.	July 16
July 24.	Asphalt and brick paving	Saginaw, Mich.	July 16
July 24.	Hire of dredging plant	Cincinnati, O.	July 16
July 24.	Asphalt paving	Bridgeport, Conn.	July 16
	Advertised, Eng. News, July 16 and 23.		
July 24.	Laying water mains	Rochester, N. Y.	July 23
July 24.	Brick paving, etc.	Boston, Mass.	July 23
July 24.	Cement sidewalks, etc.	Rochester, N. Y.	July 23
July 25.	Steel chimney	Wasington, D. C.	July 23
July 25.	Pipe sewers	La Crosse, Wis.	July 23
July 25.	Water bonds ($8,000)	Coraopolis, Pa.	July 23
July 25.	Pig lead (15 tons)	Baltimore, Md.	July 23
July 25.	School building	Pittsburg, Pa.	July 16
July 25.	Bridges (2)	Clearlake, S. Dak.	July 16
July 25.	Brick paving and grading	Des Moines, Ia.	July 16
July 25.	Iron and steel bridge	Cumming, Ga.	June 18
	Advertised, Engineering News, June 18.		
July 25.	Brick paving	Racine, Wis.	July 2
	Advertised, Engineering News, July 2.		
July 27.	Garbage disposal plant	Halifax, N. S.	July 2
	Advertised, Eng. News, July 2 to 23.		
July 27.	Hall and chapel	Cleveland, O.	July 9
July 27.	Brick paving	Toledo, O.	July 16
July 27.	Brick sewers	Toledo, O.	July 16
July 27.	Building bonds	New York, N. Y.	July 23
July 27.	School building, etc.	New York, N. Y.	July 23
July 27.	Granite block paving	Brooklyn, N. Y.	July 23
July 27.	Granite paving and park work	New York	July 23
July 27.	Paving	Bradford, Pa.	July 23
	Advertised, Engineering News, July 23.		
July 27.	Pipe sewers	Des Moines, Ia.	July 30
July 27.	Laying water main	La Crosse, Wis.	July 23
July 27.	Laying water mains (24 streets)	Chicago	July 23
July 27.	School building, etc.	St. Louis, Mo.	July 23
July 27.	Macadam paving	Depew, N. Y.	July 23
July 27.	Paving	St. Paul, Minn.	July 23

July 27. Pipe sewers, Boston, Mass. ..... July 23
July 28. Laying water pipes, 1 yr., Jersey City .... July 23
July 28. Electric light poles, Chicago, Ill. ..... July 23
July 28. Addition to vault, Brooklyn, N. Y. ..... July 23
July 28. Cement (3,500 bbls.), Brooklyn, N. Y. ..... July 21
July 28. Curbing, Chicago, Ill. ..... July 23
July 28. Paving, etc., Annapolis, Md. ..... July 23
July 28. Sewers, Troy, N. Y. ..... July 23
July 28. Water bonds ($150,000), Tarrytown, N. Y. .. July 23
July 28. Pumping engines, Pittsburg, Pa. ..... July 23
July 28. Water bonds, Fosston, Minn. ..... July 23
July 28. Granite monument, Clarion, Pa. ..... July 16
July 28. Sewer system, Champaign, Ill. ..... July 16
July 28. Hook and ladder truck, Brooklyn, N. Y. .. July 16
July 28. Macadam paving, Winnetka, Ill. ..... July 16
Advertised, Eng. News, July 16 and 23.
July 28. Sewage disposal system, Mansfield, O. ... July 16
July 28. Railway track scale, Mansfield, O. ..... July 16
July 28. Laying 48-in. water mains, Boston, Mass. July 9
Advertised, Eng. News, July 9 and 16.
July 28. Asphalt paving, New York, N. Y. ..... July 9
July 29. County jail, Philipsburg, Mont. ..... July 9
July 29. Sewer, Montreal, Que. ..... July 16
July 29. Electric lighting, Peterboro, Ont. ..... July 23
July 29. Concrete coping, East Marion, N. Y. ..... July 23
July 30. Plumbing, Barnstable, Mass. ..... July 23
July 30. Macadam road (9 miles), Jamaica, N. Y. .. July 23
Advertised, Eng. News, July 16 and 23.
July 29. School building, Baltimore, Md. ..... July 23
July 29. Electric light plant, Cincinnati, O. ..... July 23
July 30. Pig lead (100 tons), Buffalo, N. Y. ..... July 23
July 30. Heating, plumbing, etc., Palmer, Mass. .. July 23
July 30. Levee work, Memphis, Tenn. ..... July 23
July 30. Steam fire engines (5), Chicago, Ill. ..... July 23
July 30. Pumping engines, Petrolea, Ont. ..... July 16
Advertised, Eng. News, July 16 and 23.
July 30. Electric light franchise, Goldsboro, N. C. .. July 16
Advertised, Eng. News, July 16 and 23.
July 30. Plans for city hall, Mt. Vernon, N. Y. .. July 16
July 30. Levee work, Memphis, Tenn. ..... July 16
July 30. Light station at Smith Point, Va. ..... July 16
July 30. Freight elevator, Washington, D. C. ..... July 16
July 30. Street bonds ($13,135), Wellston, O. ..... July 16
July 30. Bridge substructures (3), Reading, Pa. .... July 9
July 30. Mill building, Stonington, Conn. ..... July 9
July 30. Brick paving, Fort Dodge, Ia. ..... June 25
July 31. St. ry franchise, Kingston, Jamaica, W. I. May 28
July 31. Public lighting, Utica, N. Y. ..... July 2
July 31. Lake tunnels, Cleveland, O. ..... July 2
Advertised, Eng. News, July 2 to 23.
July 31. Bridge superstructures (3), Reading, Pa. .. July 9
July 31. Brick or asphalt paving, Richmond, Ind. .. July 16
July 31. Paving, Athens, O. ..... July 16
July 31. Police station, New York, N. Y. ..... July 23
July 31. Cribs (7), Detroit, Mich. ..... July 23
Advertised, Eng. News, July 23 and 30.
July 31. Paving, grading, etc., Pittsburg, Pa. ..... July 23
July 31. Brick and pipe sewers, Pittsburg, Pa. .... July 23
July 31. Disinfecting plant, Pittsburg, Pa. ..... July 23
July 31. School building, Chicago, Ill. ..... July 23
July 31. Granite block paving, Troy, N. Y. ..... July 23
Aug. 1. Steam engine lathe, drill, Baltimore, Md. .. July 23
Aug. 1. Asphalt paving, etc., New York, N. Y. .... July 23
Aug. 1. Plans for school bldg., Hartford, Conn. .... July 23
Aug. 1. Water-works, Silver Creek, N. Y. ..... July 23
Advertised, Eng. News, July 23 and 30.
Aug. 1. Reservoir, Tyrone, Pa. ..... July 23
Advertised, Engineering News, July 23.
Aug. 1. Boiler, Ironton, O. ..... July 23
Aug. 1. Sewers, Washington, D. C. ..... July 16
Advertised, Engineering News, July 16.
Aug. 1. Interior of capitol building, Denver, Colo. July 16
Aug. 1. Water bonds, Painesville, O. ..... July 9
Aug. 1. Telford paving, etc., Elizabeth, N. J. .... July 9
Aug. 1. Plans for city hall, Binghamton, N. Y. .... June 4
Aug. 1. County jail work, Minneapolis, Minn. .... June 18
Aug. 3. Water bonds, Salmon, Idaho ..... July 9
Aug. 3. Mortars, steel forgings, etc., Washington. . July 9
Aug. 3. Garbage franchise, Oakland, Cal. ..... July 16
Aug. 3. Brick paving, etc., Crawfordsville, Ind. .. July 16
Aug. 3. Brick paving, Toledo, O. ..... July 16
Aug. 3. Paving bonds ($12,000), Archbold, O. ..... July 16
Aug. 3. Gun forgings, Washington, D. C. ..... July 16
Aug. 3. Court house, Lexington, Tenn. ..... July 23
Aug. 3. Hospital buildings, etc. (3), New York .... July 23
Aug. 3. Brick paving, Galesburg, Ill. ..... July 23
Aug. 3. Brick sewers (3,500 ft.), Providence, R. I. .. July 23
Advertised, Eng. News, July 23 and 30.
Aug. 3. Water-works, Doon, Ia. ..... July 23
Advertised, Engineering News, July 23.
Aug. 3. Fire hose, Baltimore, Md. ..... July 23
Aug. 3. Iron bridges (3), Buffalo, N. Y. ..... July 23
Aug. 3. Bridge bonds ($60,000), Paterson, N. J. .. July 23
Aug. 3. Bridge, San Jose, Cal. ..... July 23
Aug. 3. Grading, Kansas City, Mo. ..... July 23
Aug. 3. Street work, Delford, N. J. ..... July 23
Advertised, Engineering News, July 23.
Aug. 4. Hospital buildings, Collins, N. Y. ..... July 23
Advertised, Engineering News, July 23.
Aug. 4. Sewers, Brooklyn, N. Y. ..... July 23
Aug. 4. Pipe sewers (3,790 ft.), Monticello, Ill. .... July 23
Advertised, Engineering News, July 23.
Aug. 4. Water-works, Edwardsville, Ill. ..... July 23
Aug. 4. Post office building, Madison, Wis. ..... July 16
Advertised, Eng. News, July 16 and 23.
Aug. 4. Sewer system, Champaign, Ill. ..... July 16
Advertised, Eng. News, July 16 and 23.
Aug. 4. Steward's quarters, Fort Myer, Va. ..... July 9
Aug. 5. Wire fence, Washington, D. C. ..... July 23
Aug. 5. Sewers, Cleveland, O. ..... July 23
Aug. 5. Drainage system, Youngstown, N. Y. ..... July 23
Aug. 5. Macadam road, Washington, D. C. ..... July 23
Aug. 5. Observation towers, Washington, D. C. ... July 23
Aug. 6. Enlarging town hall, Hudson, O. ..... July 23
Aug. 6. Bridge, Shelton, Wash. ..... July 23
Aug. 6. Electric wiring, etc., Poughkeepsie, N. Y. .. July 23
Aug. 6. Macadam road (2 miles,) Jamaica, N. Y. .. July 23
Advertised, Eng. News, July 16 and 23.
Aug. 7. Postoffice building, Meridian, Miss. ..... July 23
Aug. 7. Addition school bldg., W. Liberty, W. Va. July 23
Aug. 7. Brick paving, Beloit, Wis. ..... July 23
Advertised, Eng. News, July 23 and 30.
Aug. 7. Macadam paving, Beloit, Wis. ..... July 23
Advertised, Eng. News, July 23 and 30.
Aug. 7. Water-works, Three Oaks, Mich. ..... July 23
July 7. Stone and brush jetty, Sandusky, O. ..... July 23
Aug. 7. Brick paving, etc., Fortress Monroe, Va. .. July 23
Aug. 8. Building bonds, Oregon City, Ore. ..... July 23
Aug. 8. Brick paving, Evanston, O. ..... July 23
Aug. 10. Heating and power plant, Cincinnati, O. .. July 23
Aug. 10. Macadam road (5 m.), Long Branch, N. J. July 23
Advertised, Eng. News, July 23 and 30.
Aug. 10. Water supply, Missoula, Mont. ..... July 23
Aug. 10. Pumping engine, Binghamton, N. Y. ..... July 16
Advertised, Eng. News, July 16 to Aug. 6.
Aug. 10. Macadam road, Long Branch, N. J. ..... July 16
Aug. 10. Rubber hose (5,000 ft.), Jeffersonville, Ind. July 16
Aug. 10. Police station, Carbondale, Pa. ..... July 23
Advertised, Eng. News, July 23 and 30.
Aug. 10. Electric light plant, Dawson, Ga. ..... July 23
Aug. 10. Wire fence (18,000 ft.), Wakefield, Va. .. July 23
Advertised, Engineering News, July 30.
Aug. 11. Pipe sewers, Frankfort, Ind. ..... July 23
Aug. 11. Pipe sewer, Frankfort, Ind. ..... July 23
Aug. 11. Brick paving, etc., Cincinnati, O. ..... July 16
Aug. 11. Passenger elevator, Newark, N. J. ..... July 16
Advertised, Eng. News, July 16 and 23.
Aug. 11. Sewers, Cincinnati, O. ..... July 16
Aug. 12. Heat'g and vent'l'g, Fergus Falls, Minn. July 23
Aug. 12. College building, Cincinnati, O. ..... July 23
Aug. 12. Timber bridge, Cleveland, O. ..... July 23
Aug. 12. Asphalt paving, Cleveland, O. ..... July 23
Aug. 13. Stand-pipe, Bangor, Me. ..... July 23
Advertised, Eng. News, July 16 to Aug. 6.
Aug. 13. Cement, sand and stone, Boston, Mass. .. July 16
Advertised, Eng. News, July 16 to 30.
Aug. 14. Brick paving, Arcola, Ill. ..... July 16
Aug. 14. Store house, Willet's Point, N. Y. ..... July 23
Aug. 14. Smokestack foundat'n, etc., Cleveland, O. . July 23
Aug. 15. Ferryboat, Dartmouth, N. S. ..... June 25
Aug. 15. Heating and plumbing, Plattsburg, N. Y. July 23
Aug. 15. Dike work in Hudson River, ... July 23
Advertised, Eng. News, July 23 to Aug. 6.
Aug. 17. Street railway franchise, Los Angeles, Cal. July 23
Aug. 17. Trent Canal work (14 m.), Ottawa, Ont. .. June 25
Aug. 17. Sewers, siphons, etc., Woonsocket, R. I. .. July 23
Advertised, Eng. News, July 23 and 30.
Aug. 20. Removing wrecks, St. Augustine, Fla. .. July 23
Advertised, Eng. News, July 23 to Aug. 13.
Aug. 20. Dam, pier, etc., Cincinnati, O. ..... July 16
Advertised, Eng. News, July 16 to Aug. 6.
Aug. 21. Postoffice building, Racine, Wis. ..... July 23
Advertised, Eng. News, July 23 and 30.
Aug. 22. Engine house, Allegheny, Pa. ..... July 23
Aug. 24. Sewer bonds ($11,000), Yeadon, Pa. ..... July 23
Sept. 2. Bridges (2), Chicago, Ill. ..... July 16
Sept. 3. Plans for school bldg., Lancaster, Pa. .. July 23
Sept. 4. Pumping engines, St. Louis, Mo. ..... May 14
Sept. 7. Wooden bridge, White Sulphur Spgs., Mont. July 23
Sept. 14. Battleships (3), Washington, D. C. ..... July 16
Sept. 18. Torpedo boats, Washington, D. C. ..... June 25
No date. Water-works, Walkerton, Ind. ..... July 23
Advertised, Engineering News, July 23.
" Artesian well, Greenwood, S. Dak. ..... July 23
" Steel bridge, Urbana, Ill. ..... July 23

RAILWAYS.

East of Chicago.

CHESTER & BECKET.—This company is being organized to construct a standard gage railway from the main line of the Boston & Albany, just east of the village of Chester, Mass., to the quarries of the Hudson & Chester Granite Co., in the town of Becket, a distance of 5¼ miles. The capital stock has all been subscribed. The directors include several of the directors of the Boston & Albany R. R. Co. The surveys are completed and construction will probably be begun in August. J. B. Haviland is the chief engineer, with offices in room 19 of the B. & A. depot at Boston, Mass. Frederick J. Collier, of Hudson, N. Y., is clerk of the company.

Southern.

ALABAMA & LITTLE RIVER.—This company has been incorporated to build a railway through Monroe and Baldwin counties, Ala. The capital stock is $50,000; the incorporators are J. T. McKervy, Edwin Lashbrook and Jos. S. Greenwood.

BEATTY LUMBER.—The officers of this company, Crow, W. Va., are quoted as saying that eleven miles of a tram road are now completed. The company expects to complete the entire railway by Oct. 1, 1896. The equipment has been purchased.

PRIVATE.—A. Knabb & Co., of Krug, Md., are said to be building a railway five miles in length.

SEBASTIAN & CINCINNATUS FARMS.—Gen. Mgr., W. W. Russell, Sebastian, Fla., writes us that the projected length is 10 miles, to connect Sebastian and "The Cincinnatus Farms." The work is all finished except laying the track; this will be done by Aug. 1. A. O. Russell, Cincinniati, O., is the owner.

Northwest.

ALLOWEZ BAY.—Press reports from Superior, Wis., state that Winston Bros. & Dear have been awarded the contract for building this railway. The entire distance to be constructed is said to be 100 miles.

CHICAGO & NORTHWESTERN.—Press dispatches state that 25 miles of the extension north of Gillett, Wis., have been graded and that 700 men are now at work. Ch. Engr., John E. Blunt, Chicago, Ill.

CAVALIER & WALHALLA.—The surveys for a railway between Cavalier and Walhalla, N. Dak., are stated to have been completed. The distance is 21 miles. The grading is to be commenced at once and it is expected to have it finished in two months.

Southwest.

DENVER, OKLAHOMA & GULF.—It is stated that negotiations are pending to build this railway from Henrietta, Tex., by way of Breckenridge, Brownwood and Fredericksburg, to connect with the San Antonio & Aransas Ry. at Comfort, Tex.

MEXICAN INDUSTRIAL.—This company is said to have been organized to build a railway around the city of Mexico for transfer purposes. It will connect the Mexican Central, the Inter-Oceanic and the Mexico, Cuernavaca & Pacific. Three miles have already been constructed, and to complete the road it is proposed to issue bonds.

MISSISSIPPI & LA FOURCHE.—It is reported that work has begun on this railway at Lauderdale, near Donaldsonville, La. It is expected to complete the road from Lauderdale to a point on the Bayou La Fourche, near Klatzville, La., a distance of 7½ miles. Rails have been purchased for the first miles. Pres., R. W. Edwards; Treas., C. Kline. The road will be a feeder of the Southern Pacific system.

MISSOURI CENTRAL.—A press dispatch from Chicago states that a company has been organized in that city for the purpose of building a line of railway in Missouri from Versailles to Lebanon, a distance of 60 miles, passing through several county seats and the great Ha-Ha Tonka Park and Springs. This road, it is stated, will open up the richest mining section of the state, which is rich with coal, lead and zinc ore. Farming and fruit lands are also located along the line of the proposed route.

SOUTHWESTERN, ARKANSAS & INDIAN TERRITORY.—Geo. R. Brown, Little Rock, Ark., is quoted as saying that contracts have been awarded to R. W. Dodson for extending this line from Antoine, Ark., to a new town to be known as Pike City, 15 miles distant. The road has been in operation between Smithton and Antoine for several years, and is now 20 miles in length. It is expected to reach the terminus about Sept. 1.

TEXAS CENTRAL.—Wm. F. Gould, Resident Engr., Waco, Tex., writes us that preliminary surveys have been completed from Albany, Tex., westward 35 miles. Nothing further will be done until fall. Pres., H. K. McHaig.

WHITE RIVER VALLEY & WESTERN.—This company has been incorporated to build a railway 250 miles in length, from Stilwell, Ind. Ter., to Bald Knob, Ark. The incorporators are: George A. Hagerty, of Fayetteville, Ark.; G. H. Candel, Lowell, Mass.; Elgar Gurney, and eGorge P. Bassett, of Cincinnati, O. The route lies through the Arkansas fruit belt.

Rocky Mountain and Pacific.

ASTORIA & COLUMBIA RIVER.—Press reports state that the contract for building this railway from Astoria to Goble, Ore., has been awarded to Honeyman, De Hart & Co., of Portland, Ore., at about $500,000, and bonds for the performance of the work, in the sum of $100,000, have been furnished. This work will probably furnish employment for from 700 to 1,000 men for a year.

GULF, RIO GRANDE & PACIFIC.—This company has been incorporated at Santa Fe, N. Mex., to acquire contracts and concessions from the Mexican government for the construction, equipment and management of railway and telegraph lines in Mexico. The incorporators are H. L. Warren, Albuquerque, New Mex.; William Hutchison, B. Y. McKeyes, Deming, New Mex.

SILVERTON NORTHERN.—It is stated that this railway has recently been completed for six miles north of Silverton, Colo., through the mountains of San Juan county. The present terminus is at Eureka, but it is proposed to extend the road to Mineral Point, five miles further. The line has been built by Otto Mears and reaches a gold producing district. It is expected that it will be finished to Mineral Point by October. The estimated cost of the road is placed at $600,000. Pres., Fred Walson, Denver, Colo.

STREET AND ELECTRIC RAILWAYS.

RUTLAND, VT.—It is reported that the Rutland St. Ry. Co. will soon extend its lines. Pres., J. W. Cramton, Treas., N. V. Chaffee; Supt., M. McKeogh.

SPRINGFIELD, VT.—Press reports state that work has begun on the Springfield Electric Ry. It will be built from Springfield to Charleston, N. H., a distance of eight miles. W. H. Slack, G. F. Leland and E. B. Flinn are interested.

PROVIDENCE, R. I.—The Union Ry. Co. has been granted permission to extend its lines. The company has 90 miles of railway in operation. Gen. Man., A. T. Potter; Ch. Engr., G. C. Tingley.

BRENTWOOD, N. Y.—It is reported that the state will build an electric railway to connect the asylums at Kings Park and Central Islip.

SYRACUSE, N. Y.—The Onondaga Lake R. R. Co. has been incorporated to construct a double-track street surface electric railway about seven miles in length, from Clinton square to the resort known as Long Branch, Onondaga Lake; capital stock, $250,000; directors, John S. Kaufmann, W. R. Smith, Bruce S. Aldrich, Edward A. Powell, Jas. M. Belden, P. R. Quinlan, W. H. Gallup.

LANGHORNE, PA.—Engineers have completed the survey for an electric railway between Langhorne and Frankford. The line is intended to accommodate passengers to Neshaminy.

PITTSBURG, PA.—It is said that the West End Street Car Co. will build an electric railway from the West End in Pittsburg, to Monongahela. It has purchased the franchise of the Little Saw Mill Run R.R. Co., and has secured the right of way through nearly all of the property along the route. A force of 200 men is at work grading the road at West Liberty. The road will be known as the West Side Belt Line R. R., and will extend from the Pittsburg terminals of the Little Saw Mill Run R.R., up the Saw Mill Run valley through Shalersville, West Liberty, Fairhaven, Castle Shannon, Curry Station, Finleyville and thence up the river to Monongahela. A branch will be built from Curry to Duquesne, a distance of ten miles. The length of the main line is 27 miles.

CHARLESTON, S. C.—Therrell & Co. are quoted as saying that they will make a proposition to the owners of the Charleston St. Ry. to adopt electricity. In case the proposition is accepted, work will begin at once upon the reconstruction of the Charleston system.

CINCINNATI, O.—It is reported that the Consolidated St. Ry. Co. is distributing rails for extensive improvements and that bids will soon be asked for doing the work.

CLEVELAND, O.—The Cleveland "News" states that the Cleveland Electric Ry. Co. has made application for permission to extend its track to Cedar Glens and Euclid Heights. Right of way has already been obtained. Pres., H. E. Andrews; Supt., H. J. Davies.

PORTSMOUTH, O.—The Portsmouth St. Ry. & Light Co. is reported to have made appropriations for extensions and new machinery to cost $12,000 to $15,000. Pres., F. L. Smith; Supt., S. P. Baird.

ZANESVILLE, O.—A press report states that the Zanesville St. Ry. Co. has doubled its capital stock, making it $500,000. The line will be extended and new equipment added. Pres., A. L. Conger; Supt., A. H. Johnson.

ST. JOSEPH, MICH.—W. Worth Bean, Pres., writes us that the St. Joseph & Benton Harbor St. Ry. Co. is projecting an electric railway, two miles long, to be completed by July 1, 1897.

MADISON, WIS.—A press dispatch states that Wingra Park citizens have raised $4,000 of the $7,000 required to extend the Madison Electric St. Ry. from its terminus on University Ave. to Harrison St., while the University Heights citizens have pledges for $3,000 of the $4,500 needed to secure an extension to that suburb. Pres., W. Lamprecht.

RACINE, WIS.—It is stated that the Belle City St. Ry. Co. has accepted the additional franchise upon the streets of Racine. Pres., J. I. Case.

MASON CITY, IA.—O. E. Stanley, Asst. Cy. Engr., writes us that the city has granted a franchise for an electric railway to W. E. Brice and L. H. Ong, Tama City, Ia., and that a local company will be organized to push the project. The city of Clear Lake has also granted a franchise to the same parties and efforts will be made to build the road between this city and Clear Lake, a distance of about eight miles. It is hoped to complete it this summer.

BEATRICE, NEB.—A press dispatch states that the Beatrice Electric Co. will make some improvements in the way of straightening and relaying its tracks. The company now owns 7½ miles of track.

KANSAS CITY, MO.—It is said that the Missouri, Kansas & Texas Trust Co. is backing a scheme to connect Kansas City, Leavenworth, Kan., Atchison, Kan., and St. Joseph, Mo., by an electric road.

OGDEN, UTAH.—W. H. Rowe, as receiver, has sold the track, rights of way, franchises and other properties of the Ogden Street Ry. Co. to Daniel Van Dam, whose bid was in the name of Roland C. Conklin, of New York city. The amount paid was $350,000. It is expected that extensive improvements will be made. The tracks are 12 miles long.

UNIVERSITY PARK, ORE.—Isaac Leskard writes us that he is working on some improvements in the Barnes Heights Electric Ry., and that the Portland General Electric Co. may aid in the work of extending this line to Hillsboro, Ore., a distance of 18 miles, east of Portland.

WATERLOO, ORE.—An electric railway may be built from here to Lebanon, Ore. Dr. J. L. Hill, Albany, Ore., is interested.

LOS ANGELES, CAL.—A press dispatch states that the council will receive bids until 11 a. m. Aug. 17 for a franchise for the construction and operation of a street railway along certain streets. C. A. Luckenbach, Cy. Clk.

SAN FRANCISCO, CAL.—The Geary St. Park & Ocean Ry. Co., has applied for a franchise to build an electric railway upon certain streets.

SANTA ROSA, CAL.—An application is stated to have been made for a franchise for an electric railway between Sonora and Santa Rosa. From Santa Rosa the line will extend to Melitta, thence to Kenwood, thence to Glen Ellen, from there to Agua Caliente and from Agua Caliente to Sonora.

ELECTRIC LIGHT AND POWER.

HARDWICK, VT.—A committee has been appointed to make a contract with Mr. Aimon to furnish this place with electricity. It was instructed to give $5.50 each for the street lights per year. The village will have 100 street lights thus making a cost for the street lighting $550 per year, $3.50 for 16-c. p. lights for house lights and $4 per year for store lights of 30 c. p. The power at George Smillie's mill will be utilized for the plant. The street lights will be ready for operation in October or November.

CHICOPEE, MASS.—The council has appropriated $6,000 for extending the electric light plant.

WESTERLY, R. I.—An election will probably be held to vote on the question of a municipal electric light plant.

BUFFALO, N. Y.—Wm. B. Rankine, Secy. Niagara Falls Power Co., this week made the statement that the contract for the transmission pole-line to this city will be let within a few days. The company will deliver 1,000 HP. in this city Nov. 1.

LITTLE FALLS, N. Y.—Jesse Peterson, Pres. Indurated Fibre Co., Lockport, N. Y., proposes to erect an electric light plant in this city.

WADDINGTON, N. Y.—An electric light plant is contemplated. R. S. Dalzell, Village Clk.

ASBURY PARK, N. J.—The Atlantic Coast Electric Co. proposes putting in a new plant to cost about $500,000. Isaac C. Kennedy, of Asbury Park, is the counsel.

STOCKTON, N. J.—Young & Bailey, of Philadelphia, Pa., are preparing plans for an electric light plant of 100-arc light capacity to be erected at North Cramer Hill.

WEST NEWTON, PA.—The construction of an electric light plant at this place is proposed.

MANCHESTER, VA.—The council has appointed a committee to investigate the advisability of erecting a city plant.

CONCORD, N. C.—The Concord Electric Light Co. finds it necessary to increase the capacity of its plant. New boilers, etc., will be added at once.

ANDERSON, S. C.—It is reported that arrangements are being made for the immediate construction of a power plant at Pollman Shoals, 10 miles from this place, for the Anderson Light & Power Co.; estimated cost, $200,000. W. C. Whitner, Gen. Mgr., Anderson.

DAWSON, GA.—Bids are asked until Aug. 10 for an electric light plant. Consult. Engr., Frank Lederle, 608 Gould Bldg., Atlanta, Ga.; Dr. J. G. Dean, Chn. Com.

LAFAYETTE, LA.—The council has awarded to James Ferguson, of New Orleans, the contract for constructing an electric light plant and water-works, for which $36,000 in bonds will be issued.

BLANCHESTER, O.—G. L. McKibben, Cy. Engr., of Van Wert, O., has been engaged to prepare plans and specifications for a water and electric light plant, and to superintend the erection.

CINCINNATI, O.—Bids are asked until July 29 for furnishing the House of Refuse with one 75-HP. engine, medium speed, to drive dynamo; one 45-K.-W. multipolar dynamo, 110-volt constant potential, slow speed; one set of accumulators, 300 ampere hones 110 volts, and one 10-HP. 110-volt constant potential motor, wire work and appliances. James Allison, Secy. Bd. Directors.

IONIA, MICH.—The county surveyor has completed surveys for a dam for the Ionia Electric Co.

PORTLAND, MICH.—The following bids were received July 7 for erecting an electric light plant; Engrs., H. H. Humphrey, 22 Bennett Bldg., Detroit, Mich.; R. W. Alton Pres. of Village:

Fort Wayne (Ind.) Electric Corporation, accepted	$6,495
General Electric Co, Chicago, Ill	6,620
Westinghouse Electric & Mfg. Co., Pittsburg, Pa	6,700

THREE OAKS, MICH.—F. B. Hinchman, Three Oaks, writes us that this place will soon vote on the question of putting in a plant. Plans and specifications have been prepared by Geo. C. Morgan, of Chicago.

CHICAGO, ILL.—Bids are asked until July 28 for furnishing 50 electric lamp poles for Garfield Park. Engr., Foree Bain, 1657 Monadnock Bldg.; Harvey T. Weeks, Pres.

DENVER, COLO.—Press reports state that the east side power house of the Denver Consolidated Electric Works was destroyed by fire July 12, causing the loss of 18 engines and 17 generators of the Westinghouse pattern, worth about $150,000.

GREAT FALLS, MONT.—The Great Falls Water-Power & Townsite Co., which is a large owner of lots and lands in this city, and plotted in the original townsite, is also the owner of the water power created by the Missouri River for a distance of about ten miles below the city, in which distance it has a total fall of over 400 ft., and includes the Black Eagle, Rainbow and Great Falls. The former of which is now developed to the extent of 40 ft. head, and capable of furnishing at the average flow of the river about 30,000 gross HP. A large portion of this power is now being used by the Boston & Montana Copper Smelting Co., the Street Ry. & Electric Light & Power Co., Royal Milling Co. and other industries. Andrew Rinker, Engr., and Gen. Agent, Great Falls; Samuel Hill, Pres.; Paris Gibson, Vice-Pres.; Wm. W. Conner, Secy. and Treas.

PETERBORO, ONT.—Bids are asked until July 29 for lighting the streets with 80 arc lights, according to reports. S. R. Armstrong, Town Clk.

NEW COMPANIES.—Dubinski Electric Co., San Antonio, Tex.; $10,000; Benjamin Dubinski.

Farmington Electric Light Co., Farmington, Me.; $10,000; Pres., E. S. Dingley, of Farmington; Treas., J. P. Flint, of Farmington.

Winn Water & Power Co., Bangor, Me.; $100,000; Pres., N. M. Jones; Treas., J. E. Clark; Clk., M. F. Scott.

Contract Power Co., Hamilton, Ont.; $99,000; J. M. Gibson, James Dixon, John Moodie, John W. Sutherland, John Patterson, E. D. Patterson, all of Hamilton.

Consumers' Electric Light & Power Co., Newark, N. J.; $300,000, with $5,000 paid in; Benj. Atha, Albert O. Headley, Edward L. Conklin, of Newark, and Thos. C. Barr, of Orange, N. J.

Montezuma Electric Co., Illinois; $2,400, with all paid in; Arnold Beck, Sr., Arnold Beck, Jr., Ernest P. Olshausen, Henrietta Plate.

BRIDGES.

SOUTH PARIS, ME.—A committee has reported on plans and estimates for a new bridge at this place.

WOONSOCKET, R. I.—The council has decided to rebuild the wooden bridge over the Blackstone River by the erection of a steel structure.

TORRINGTON, CONN.—The construction of a bridge to cost about $5,000 is proposed at Main St., according to reports.

BINGHAMTON, N. Y.—At an election held July 14 the proposition to appropriate $60,000 for erecting a bridge at Ferry St. was defeated. S. E. Monroe, Cy. Engr.

BROOKLYN, N. Y.—The East River Bridge Commission has adopted the plans for the proposed bridge between this city and New York. Ch. Engr., L. L. Buck.

BUFFALO, N. Y.—Bids are asked until Aug. 3 for constructing three iron bridges on masonry substructures over Scajaquada Creek. R. G. Parsons, Secy. Dept. Pub. Wks.

NIAGARA FALLS, N. Y.—At a recent election it is reported that the citizens voted to build a bridge over the railway tracks at Pierce St.; estimated cost, $15,000. W. W. Read, Cy. Engr.

SLOANSVILLE, N. Y.—Chas. Wright, Central Bridge, N. Y., informs us that it is proposed to erect a one-span bridge 280 ft. long at a cost of $10,000. No contracts have yet been awarded.

PATERSON, N. J.—Bids are asked until Aug. 3 for the purchase of $60,000 of bridge bonds. Geo. F. Feuerstein, Chn.

EASTON, PA.—It is reported that A. J. Cooper, Easton, has been engaged to prepare plans for an iron bridge in Northampton county.

PHILADELPHIA, PA.—It is proposed to build a new bridge at Gray's Ferry to cost $550,000. Of this amount the Pennsylvania R. R. Co. will contribute $75,000, under the condition that the Union Traction Co. contributes a like sum.

PITTSBURG, PA.—John Brunner has been engaged to prepare plans for reconstructing the suspension bridge over the Monongahela River. E. M. Bigelow, Dir. Pub. Wks.——The Oakland bridge over Three Mile Run at Halket St. was recently destroyed by heavy rains, causing a loss of about $2,500.

GASTONIA, N. C.—The commissioners of Gaston county at the monthly meeting last week, decided to build an iron bridge across the South Fork of the Catawba River, near McAdensville, N. C. The bridge is to be 350 ft. long, with wooden approaches 100 ft. and 25 ft. Bids will be received for the next two weeks for building the same.

ROANOKE RAPIDS, N. C.—The new bridge across the Roanoke River at this town, recently built by the Roanoke Rapids Power Co., was washed away and totally destroyed last week by the rise in the Roanoke River, caused by the unusually heavy rains. It was 275 ft. long. It will be replaced at once by an iron and steel structure of the same size, but at a higher elevation. Address Roanoke Rapids Power Co., Roanoke Rapids, N. C. This is a new manufacturing town and is located five miles above Weldon, N. C.

NORTH CAROLINA.—Owing to the heavy rains and consequently swollen streams, many of them rising higher than has been known in 50 years, especially the Roanoke and Cape Fear and other rivers and streams in Eastern North Carolina, a number of bridges and trestles owned by the Carolina Central, Wilmington & Weldon and other railway companies were washed away, or so badly damaged as to make rebuilding necessary. Our correspondent writes that bridge companies could afford to send representatives to that section to ascertain at once the exact location of several which must be replaced.

CLEVELAND, O.—Bids are asked until Aug. 12 for constructing a timber Howe truss bridge over the railway tracks at Seneca St., and also to construct a 400-ft. inclined timber roadway. D. E. Wright, Dir. Pub. Wks.

COLUMBUS, O.—W. H. Halliday, County Audr., informs us that on account of a decision by the supreme court it was decided not to award the contract for building the proposed 144-ft. steel bridge over Big Walnut Creek, bids for which were asked until July 16.

TROY, O.—E. E. Pearson, County Audr., informs us that the following bids were received July 17 for constructing a 140-ft. iron bridge over Panther Creek, noted in our issue of July 2:

Variety Iron Works Co., Cleveland, O	$3,800
Oregonia Bridge Co., Oregonia, O	3,850
Canton Bridge Co., Canton, O	3,875
H. H. Barker, Br. Conctr., Mount Vernon, O	4,000
Bellefontaine Bridge & Iron Co., Bellefontaine, O	3,821
Cincinnati Bridge Co., Cincinnati, O	$3,995 and 4,230
Indiana Bridge Co., Muncie, Ind	4,070
Groton Bridge & Mfg. Co., Groton, N. Y.	$3,875 and 3,995
Penn Bridge Co., Beaver Falls, Pa	4,100 and 4,000
Brackett Bridge Co., Cincinnati, O	$3,795 and 3,810
Toledo Bridge Co., Toledo, O	3,962
Champion Bridge Co., Wilmington, O	3,795
Youngstown Bridge Co., Youngstown, O	$3,920 and 3,680
Iron Substructure Co., Columbus, O	4,260
King Bridge Co., Cleveland, O	3,800 and 3,890
Hamilton Construction & Tool Co., Hamilton, O	3,926
*Massillon Bridge Co., Massillon, O	3,000 to 3,575

*Awarded contract at $3,700.

JOLIET, ILL.—Press reports state that Troy, Ill., has petitioned the county commissioners for a new bridge over the Du Page River, about a mile north of the village, to cost $4,500, and that Jackson asks for a structure over Jackson Creek, to cost $2,500.

PROPHETSTOWN, ILL.—C. A. Wetherbee, of Sterling, Ill.; D. C. Waite, of Ustick, and Wm. Beswick, of Clyde, Ill., have been appointed a commission to investigate the advisability of building a bridge over Coon Creek, at this place, to cost $1,500. A. R. Hendricks, Chn. Comn., Morrison, Ill.

MILWAUKEE, WIS.—Bids will be asked this week for constructing two handsome steel arch bridges over two ravines at Lake Park, on the shore of Lake Michigan. Each bridge will have an 87-ft. span between abutments, and a roadway 26 ft. wide and two sidewalks, each 9 ft. wide; estimated cost, $40,000. For the present it is the intention of the park commissioners to start work with the masonry and put in the steel work later in the fall. Consult. Engr., Oscar Sanne, Room 69 Colby & Abbot Building, Milwaukee.

URBANA, ILL.—At the court house the commissioners of Crittenden township will let the contract for a 70-ft. steel highway bridge on masonry. Prof. Ira O. Baker, Champaign, Ill., Engr.

MENASHA, WIS.—W. W. Reed, Cy. Engr., is reported to have been directed to prepare plans for a pile bridge. S. S. Little, Cy. Clk.

WHITE SULPHUR SPRINGS, MONT.—Bids are asked until Sept. 7 for constructing a three-span wooden bridge in the Musselshell Valley, according to reports. C. W. Hall, County Clk.

SHELTON, WASH.—Bids are asked until Aug. 6 for constructing a bridge over the west branch of the Satsop River. Thos. McCarthy, County Audr., Shelton.

STEVENSON, WASH.—The following bids were received July 6 for an 80-ft. 2-span timber Howe truss bridge, with 60-ft. approaches, over Wind River. C. G. Green, Clk.:

The Rowe Lumber & Mfg. Co., Lyle, Wash	$890
J. P. Gillette, Chenoweth, Wash	800
Gordon Wilson, Carson, Wash	650
R. G. Connor, Cascade Locks, Ore	530

DALLAS, ORE.—The clerk has been directed to advertise for bids for constructing a bridge over the Yamhill River on the Lee Rowell Road, according to reports.

SALEM, ORE.—The county court has decided to ask for bids for constructing a pile bridge near Champoig. The structure will have a 70-ft. span and 270 ft. of approaches.

PLACERVILLE, CAL.—Messrs. Lachman and Porter have been appointed by the supervisors as a committee to meet the Sacramento supervisors and see what can be done in the matter of a bridge in the southern part of the county.

SACRAMENTO, CAL.—The county surveyor has recommended the construction of a 2-span steel bridge, 258 ft. long and the extension of a trestle from 596 ft. to 1,100 ft.

SAN JOSE, CAL.—Bids are asked until Aug. 3 for constructing a 60-ft. bridge over Stevens Creek, according to reports. H. A. Pfister, County Clk.

BUILDINGS.

BARNSTABLE, MASS.—Bids are asked until July 30 for additions to the plumbing at the county buildings in this town. Engr., Ernest W. Bowditch, 60 Devonshire St., Boston.

WORCESTER, MASS.—Norwood & Morton, of Worcester, have been awarded the contract, at $27,745 for erecting an eight-room school building on Lamartine St., and Rankin & Woodside have the contract for a four-room school building to cost $19,795. Archs., Earle & Fisher, 592 Main St., Worcester.

PALMER, MASS.—Bids are asked until July 30 for the heating, plumbing, electric lighting, etc., for the Massachusetts Hospital for Epileptics. Archs., Rand & Taylor and Kendall & Stevens, 87 Milk St., Boston, Mass.; Wm. N. Bullard, Chn.

HARTFORD, CONN.—Plans are asked until Aug. 1 for a brick school building at Market and Morgan Sts. Address Chas. L. Ames, 661 Main St., or Geo. C. Bailey, Chn.

BROOKLYN, N. Y.—The heirs of E. B. R. King propose to erect a 17-story building at 205 to 213 Montague St.

BUFFALO, N. Y.—The board of public works has been directed by the council to prepare plans and specifications and advertise for bids for a 3-story brick fire-engine house at Lovejoy and Gold Sts.——Morris Grant Holmes has prepared plans for a handsome brick and stone church to be built for the Methodist congregation at Depew, N. Y. It will cost $55,000.——Carl Schmill, Morgan Bldg., has prepared plans for a brick and stone convent to be built for the Polish church at Cheektowaga; estimated cost, $40,000.

COLLINS, N. Y.—Bids are asked until Aug. 4 for constructing an administration building, etc., at the Collins State Homeopathic Hospital, as stated in our advertising columns. August C. Esenwein, Arch., 707 Mooney Bldg., Buffalo; Fred J. Blackmore, Treas., Ellicott Square, Buffalo.

NEW ROCHELLE, N. Y.—It is stated that an election will be held Aug. 4 to vote on the question of issuing $50,000 in bonds for erecting a new school building.

NEW YORK, N. Y.—Bids are asked until July 27 for making alterations and improvements to about 20 school buildings and also for erecting a structure at 91st St. and First Ave., J. J. Little, Chn., 146 Grand St.——Bids are asked by the comptroller until July 27 for the purchase of $400,000 of 3½% bonds for making improvements on school buildings and on the new city college.——Bids are asked until July 31 for erecting a new police station at 133 to 137 Charles St.; surety, $30,000. Wm. H. Kipp, Ch. Clk., 300 Mulberry St.——Bids are asked until Aug. 3 for erecting three buildings for the Manhattan state hospital, and also for the steam heating and ventilating apparatus for these buildings. Arch., I. G. Perry, Albany, and Binghamton, N. Y.; Dr. A. E. Macdonald, Gen. Supt.; John M'Anterney, Acting Pres. Bd. Mgrs., 1 Madison Ave.——John Jacob Astor proposes to erect a 12-story office building at Duane St. and Broadway, and an apartment house at 56th St. and Fifth Ave.——Contracts have been let for the construction of the new passenger station of the New York Central, between 124th and 126th Sts., in Fourth Ave., and work will begin at once under the direction of Col. Walter Katte, Chief Engr. Inasmuch as the plans provide for a station under the elevated structure, instead of at the side, it will be necessary to sink the grade of a section of the elevated structure about 8 ins. in order to give room for the platform. This part of the work will consume considerable time, thereby causing further delay in the running of trains over the new steel viaduct and the four-track drawbridge. The date of the completion of the station is indefinite.——Plans have been filed by the New York Savings Bank for a 4-story brick bank building at Eighth Ave. and 40th St., to cost $220,000.——Wm. A. Clark, Pres. United Verde Copper Co., 62 William St., New York, is reported as about to erect a mausoleum in Woodlawn Cemetery, at a cost of $100,000. Archs., Lord & Hewlett, 123 East 23d St.

PLATTSBURG, N. Y.—Bids are asked until Aug. 15 for the heating, plumbing, etc., for the barracks. Capt. Geo. E. Pond, Asst. Qr. M., Plattsburg.

POUGHKEEPSIE, N. Y.—Bids are asked until Aug. 6 for electric wiring, etc., for two wings of the Hudson River state hospital. I. G. Perry, State Arch., Albany and Binghamton, N. Y.; Amasa J. Parker, Pres. Bd. Trustees.

ROCHESTER, N. Y.—A. J. Warner, Powers Bldg., has completed plans for a new cathedral for St. Patrick's, on Vought St.; estimated cost, $60,000.

YONKERS, N. Y.—The plans for a new city hall, prepared by Edwin A. Forsyth, have been accepted by the council.

WILLET'S POINT, N. Y.—Bids are asked until Aug. 14 for constructing a storehouse. Lieut. E. W. Van C. Lucas, Q. M., Willet's Point.

ALLEGHENY, PA.—Bids are asked by the controller until Aug. 22 for erecting an engine house at Branch and Forest Sts., to cost about $30,000. Arch., Joseph Stilbe g, 204 Fifth Ave., Pittsburg, Pa.

BEAVER FALLS, PA.—It is reported that S. E. Gallagher, of Beaver Falls, of the firm of Cooper & Gallagher, now in the liquor business, has secured an option on two corner lots on Seventh Ave. and 13th St. After the deal is consummated a fine hotel will be erected.

CARBONDALE, PA.—Bids are asked until Aug. 10 for furnishing the material and remodeling the city police station, as stated in our advertising columns. T. L. McMillan, Cy. Clk.

ERIE, PA.—The council has decided to compel owners of buildings over three stories high, excepting residences, to put up fire-escapes.

LANCASTER, PA.—Plans are asked by the school board until Sept. 3 for an 8-room school building at Mulberry St. and Marion Alley.

PITTSBURG, PA.—The Consolidated St. Ry. Co. proposes to build a new car barn to hold several hundred cars.——Plans have been completed for a residence, two large shelter houses and two other buildings for Schenley Park. E. M. Bigelow, Dir. Pub. Wks.; Wm. Falconer, Park Supt.——The Masons have appointed G. W. Morris, W. G. Foster, of Pittsburg, and Chas. H. Bronson, Audr. Pittsburg & Lake Erie R. R. Co., a committee to consider the advisability of constructing a masonic university.——S. T. McClarren, Westinghouse Bldg., has completed plans for a building for State Bank of Pittsburg.

SALEM, PA.—It is stated that the board of education has awarded the contract for erecting the new school buillings to W. C. Wilkins, of Pittsburg, Pa., at $55,000.

SISTERSVILLE, PA.—F. H. De Arment, 708 Penn Ave., Pittsburg, Pa., has prepared plans for a bank building.

MONONGAHELA CITY, PA.—A new school building will be built. Bartberge & East, Westinghouse Bldg., Pittsburg, Pa., are preparing plans.

BALTIMORE, MD.—Bids are asked until July 29 for erecting a school building at Carey and Chappell Sts. Benj. B. Owens, Inspector of Bldgs.

BALTIMORE, MD.—The following bids were received July 15 by B. B. Owens, Inspector of Bldgs., for erecting a school building at Linden Ave. and Koenig St: Walter Bros., $47,565; John Stack & Sons, $49,184; Morrow Bros., $47,234; Fred. Decker & Sons, $46,020; Thos. P. John s, $47,400; John Hughes, Jr., $45,574.50; C. Sheehan & Son, $48,215. New bids will be asked, as these were considered too high.

WASHINGTON, D. C.—Bids are asked until Aug. 5 for constructing a masonry observation tower on the Antietam battlefield, Va. Maj. Geo. W. Davis, Pres. Bd., War Records Office, Washington.

RICHMOND, VA.—A committee has been appointed to consider the question of a new city jail.

WEST LIBERTY, W. VA.—Bids are asked until Aug. 7 for erecting additions to the normal school building at this place. Archs., Frank E. and Henry P. Davis, Fayette St., Baltimore, Md.; Virgil A. Lewis, Pres. Trustees, Charleston, W. Va.

WHEELING, W. VA.—It is reported that the Baltimore & Ohio R. R. Co. is considering plans for a new passenger station in this city. Ch. Engr., W. T. Manning, Baltimore, Md.

ASHEVILLE, N. C.—The county commissioners are about to select a site for a new county court house.

ATLANTA, GA.—Grant Wilkins, Atlanta, has about completed plans for a new county jail to have 225 cells and to cost $175,000.

BIRMINGHAM, ALA.—E. W. Walpoole of Talladega, Ala., has had plans prepared by him accepted for a girls' industrial school; estimated cost, $50,000. T. S. Plowman, Chn. Com., of Talladega.

MERIDIAN, MISS.—Bids are asked until Aug. 7 for erecting a post office building in this city. Wm. Martin Aiken, Supervising Arch., Washington.

LEXINGTON, TENN.—Bids are asked until Aug. 3 for erecting a court house in this city. Arch., R. H. Hunt, Keystone Block, Chattanooga, Tenn.; E. J. Timberlake, Chn. Com.

CINCINNATI, O.—Bids are asked until Aug. 12 for furnishing engines, boilers, smoke connections, ventilating and heating apparatus, plumbing, etc., for the north wing of Hanna Hall. Archs., S. Hannaford & Sons, Hulbert Block; J. M. Robinson, Chn. Com., University of Cincinnati, Cincinnati.——Bids are asked until Aug. 10 for a steam heating and power plant for the house of refuge; bond, $6,000. Archs., Samuel Hannaford & Sons; James Allison, Secy.

CLEVELAND, O.—John F. Rust proposes to erect a 7-story office building on Euclid Ave. to cost about $30,000. Arch., Geo. H. Smith, 29 Euclid Ave.

CLEVELAND, O.—The Baltimore & Ohio R. R. Co. has decided to spend about $500,000 on reconstructing its passenger station at South Water St.

HUDSON, O.—Bids are asked until Aug. 6 for enlarging the town hall. E. E. Rogers, Township Clk.

DETROIT, MICH.—The following bids were received June 30 by Maj. M. P. Adams, U. S. Engr., for erecting buildings, etc., for the North Manitou Light Station, as advertised in Engineering News:

Joseph V. Gearing, Detroit, Mich., accepted	$10,642
McCurdy Bros., Houghton, Mich.	11,791
O'Sullivan & Jenks, Port Huron, Mich.	12,674
J. T. Moyhen, Detroit, Mich.	14,288
Robert Dunn & Co., Detroit, Mich.	15,187

CHICAGO, ILL.—The following bids were received by W. B. Wickersham, Secy. Bd. Directors, for furnishing electric elevators for the public library building; the first price being for 10 elevators and the second for 8:

Eaton & Prince Co., Chicago	$18,985	$15,500
Standard Elevator & Mfg. Co., Chicago	26,795	21,640
Smith-Hill Elevator Co., Quincy, Ill.	24,862	19,951
Crane Elevator Co., Chicago	18,820	15,294

——The Tower Co. has been incorporated with a capital stock of $800,000 to erect a tower 1,150 ft. high and 300 ft. at its base. The structure will have 14 elevators. Pres., D. R. Proctor.

CHICAGO, ILL.—Bids are asked until July 31 for constructing an 8-room and assembly hall school building at Ashland and Greenleaf Ave. Arch., Aug. Fiedler, Schiller Bldg.

RACINE, WIS.—Bids are asked until Aug. 21 for constructing the U. S. post-office building in this city, as stated in our advertising columns. Wm. Martin Aiken, Supervising Arch., Washington, D. C.

SIOUX CITY, IA.—Wm. M. Aiken, Supervising Arch., Washington, received the following bids July 14 for furnishing and placing a steam heating and ventilating apparatus in the court-house and post-office building in this city, as advertised in Engineering News:

		Time, days
Bayley Heating Co., Milwaukee, Wis.	$11,566	120
Sproul & McGurrin, Grand Rapids, Mich.	12,974	120
Optenberg & Sonneman, Sheboygan, Wis.	9,999	90
J. J. Hanighen, Omaha, Neb.	12,320	114
Chas. B. Kruse Heating Co., Milwaukee, Wis.	11,090	120
Thomas & Smith, Chicago	11,880	120
Davenport Steam Heating Co., Davenport, Ia.	10,979	120
Allen Black, St. Paul, Minn.	13,495	90
Samuel I. Pope Co., Chicago, (by telegraph)	10,870	

FERGUS FALLS, MINN.—Bids are asked until Aug. 12 for a heating and ventilating apparatus for the east wing of the state hospital. Arch., W. B. Dunnell, Bank of Commerce Bldg., Minneapolis, Minn.; T. H. Titus, Secy., Fergus Falls.

ANACONDA, MONT.—A. C. Schweinfurth, of New York, N. Y., is to prepare plans for the new Hearst library in this city, to be built by Mr. Hearst, of San Francisco, Cal. Fred Clark, Librarian, Anaconda.

HELENA, MONT.—An election will be held July 25 to vote on the question of issuing $61,000 in bonds for work on city buildings and for furnishing a heating and ventilating apparatus for the high school building. Arch., Clarence Johnson; Peter Winne, Chn. Com.

ST. LOUIS, MO.—Bids are asked until July 27 for erecting a new school building and for furnishing hot blast heating apparatus for six school buildings. John Kissner, Chn. Com.; C. L. Hammestein, Secy.

PUEBLO, COLO.—The following bids were received July 16 for erecting a post-office building in this city, as advertised in Engineering News. W. M. Aiken, Supervising Arch., Washington, D. C.:

		Time, mos.
L. L. Leach & Son, Chicago, Ill.	$187,774	18
Chas. A. Moses, Chicago, Ill.	208,300	18
Thos. H. O'Neil, Denver, Colo.	237,715	20
Fleming Bros., Denver, Colo.	288,657	20
Frank Anderson, Denver, Colo.	249,860	..
James A. McGonigle, Leavenworth, Kan.	249,600	20
G. W. Atkinson & Son, Colorado Springs	216,763	19

OREGON CITY, ORE.—Bids are asked until Aug. 8 for the purchase of $6,000 of 6% school building bonds. Jacob Shade, County Treas.

SEATTLE, WASH.—The Northern Pacific Ry. Co. is reported as considering the question of building a passenger station in this city. Heretofore this company has used a station jointly with the Seattle, Lake Shore & Eastern R. R. Co.

SPOKANE, WASH.—It is reported that Spokane's new army post is to be begun at once. A. E. Johnson will have charge of the architectural department of the buildings and grounds. The plans were prepared in Washington, D. C., but may be changed, and the contracts will be let, as all work is to be done by contract.

SAN FRANCISCO, CAL.—Press reports state that the Regents of the State University have decided to petition the next legislature for a special appropriation of $500,000 for building purposes, and $500,000 more for the same purpose from the succeeding legislature, in order to have a building fund of $1,000,000 for the erection of suitable college buildings.——Col. A. S. Kimball has awarded to M. McGowan the contract, at $74,700, for constructing two barracks at the Presidio.

SAN FRANCISCO, CAL.—Press reports state that the governor has approved the plans for the Affiliated Colleges, and bids will be at once asked for the construction. The buildings will number four, grouped on Parnassus Ave., between First and Fourth Avs., north of the Park; will be on ground given by Adolph Sutro. Archs., J. E. Krafft and Martens & Coffey, Academy of Science Bldg.

SAN JOSE, CAL.—A resolution has been introduced directing the city clerk to advertise for plans for a high school building and also a public library building. The high school plans must be for a building which will not cost more than $75,000, and the library building is not to exceed $25,000.

AMHERSTBURG, ONT.—Alfred B. Wood is reported to have prepared plans for a $100,000 hotel for the L'Hotel Oriental Co. The building will be 274 × 118 ft.

WATER-WORKS.

BANGOR, ME.—Bids are asked until Aug. 13 for furnishing and erecting a stand-pipe, as stated in our advertising columns (postponement from July 30). A. B. Tower, Engr., Holyoke, Mass.; Walter I. Brown, Clk. Bd.

PHILLIPS, ME.—A press report states that the construction of the new water-works was expected to begin July 20.

ST. JOHNSBURY, VT.—The Deane Steam Pump Co. has the contract for a 1,000,000-gallon power pump for this village.

ASHLAND, MASS.—William F. Merritt, Town Clk., writes us that nothing has been done except to appoint a committee to investigate the question of introducing water-works.

HOLDEN, MASS.—We are informed that the construction of works will probably be commenced next year; supply by gravity from a pond in Rutland; estimated cost, $40,000. Z. W. Armington, Town Clk.

HOLYOKE, MASS.—The water commissioners are reported as considering plans for the proposed new dam in the Manhan River.

LAWRENCE, MASS.—The water board is reported to have ordered 500 meters from the National Meter Co. and to have voted to advertise for bids for the new high-service stand-pipe.

MEDWAY, MASS.—E. V. Mitchell, of Medfield, is interested in the Medway Water Co., which proposes to construct works at this place; no plans or definite action yet decided on.

MERRIMAC, MASS.—B. Jacques, Town Clk., writes us that a committee has been appointed to report at the next annual meeting in March in regard to water-works; nothing will be done before then.

SOUTH DEERFIELD, MASS.—The South Deerfield Water Co. will probably commence the construction of works this fall; water supply from a stream; estimated cost, $25,000. E. M. Roche is interested.

SUTTON, MASS.—Efforts are being made to secure an extension of the Manchaug Water Co.'s mains to this village for fire protection, at a cost of $1,000.

TAUNTON, MASS.—A new pumping engine will probably be needed next year; no steps yet taken. Geo. T. Chace, Supt.

SUFFIELD, CONN.—The contract for pipelaying has been awarded by the Village Water Co. to A. R. Leete, of Thompsonville; pipe purchased from the Chattanooga Pipe & Foundry Co.; foundation for the stand-pipe is now being laid.

ARGYLE, N. Y.—The village clerk writes us that the proposed works will probably cost $5,000 to $8,000; supply by gravity from a lake at an elevation of 410 ft. above the village; there is some talk of organizing a company to construct the plant.

BOLIVAR, N. Y.—J. B. Bradley, E. R. Kilbury and Louis Seibert have been appointed water commissioners. It is expected that a special election will soon be held and $12,000 in bonds voted for a gravity system.

BUFFALO, N. Y.—Bids are asked until July 30 for 100 tons of pig lead for the water department. R. G. Parsons, Secy. Dept. Pub. Wks.

CLAYTON, N. Y.—Plans for works have been prepared by Hinds & Bond, of Watertown, and are now in the hands of the state board of health; water supply will probably be pumped from the St. Lawrence River to a stand-pipe. H. W. Morse, Village Clk.

ELMIRA, N. Y.—J. M. Diven, Secy., is quoted as stating that the water company has adopted plans for a 6,000,000-gallon filter plant, and that bids for the construction will be asked as soon as the specifications are completed.

FLUSHING, N. Y.—The village trustees are reported to have decided to purchase an additional pump, as recommended by the water committee.

KINGSTON, N. Y.—O. C. Longyear, Supt., writes us that it is proposed to build a new impounding reservoir and pipe line, as recently noted in these columns; no contracts have yet been awarded; the present plant was recently purchased by the city and as soon as necessary financial and other matters are arranged bids will be advertised for.

LIVONIA, N. Y.—Owing to the opposition of taxpayers the water-works project has been abandoned for the present.

NORTH TANAWANDA, N. Y.—It is stated that specifications are nearly completed for the proposed extensions, for which bonds have been voted.

NEW YORK, N. Y.—The lowest bid received July 21 for furnishing and laying two 48-in. water mains in Fifth Ave., from 60th St. to Fourth St., was that of Wm. T. Baird, at $452,460. There were 10 bidders; itemized bids will probably be published next week. Chas. H. T. Collis, Comr. Pub. Wks.

RAVENA, N. Y.—John Longear, of Kingston, has prepared plans for works estimated to cost $75,000; supply from Lawsons Lake; plant will probably be completed next year. C. L. Diston, Town Clk.

RENSSELAERVILLE, N. Y.—J. Vaughn, of Stamford, has the contract and has commenced the construction of water-works at this place, to be owned by the Rensselaer Water Co.

ROCHESTER, N. Y.—Bids are asked until July 24 for trenching and laying water pipe in six groups of streets. Thos. J. Neville, Clk. Executive Board.

SILVER CREEK, N. Y.—Bids are asked until Aug. 1 for constructing works, as stated in our advertising columns. J. F. Witmer, Engr., Buffalo; Frank L. Smith, Village Clk.

SKANEATELES, N. Y.—A press report states that the water company has not replied to the offer of the commissioners to purchase the plant for $24,000 and that bids will soon be asked for constructing new works, for which the Stanwix Engineering Co. has prepared plans.

TARRYTOWN, N. Y.—Bids are asked until July 28 for the purchase of $150,000 in 4% 30-year water bonds. John F. Schall, Secy.

WURTSBORO, N. Y.—William H. Cowan, of Montgomery, N. Y., and associates have petitioned for a franchise, which the village trustees are expected soon to take action upon; supply by gravity from springs about one mile distant; estimated cost, $10,000 to $15,000. G. F. Harding, Village Clk.

CHATHAM, N. J.—Works will probably be constructed next year; supply to be pumped from springs to a stand-pipe.

CLINTON, N. J.—We are informed that a good gravity supply could be obtained for water-works at this place and that the common council would probably grant a franchise. Chester Tomson, Cy. Clk.

JERSEY CITY, N. J.—Bids are asked until July 28 for laying water pipe in the public streets until May 1, 1897. Geo. T. Bouton, Clk. Comrs.

NEWARK, N. J.—The East Jersey Water Co. is said to have in contemplation important extensions of its system, in addition to the work now in progress.

VINCENTOWN, N. J.—The Vincentown Water Co. has commenced the construction of works to cost $9,000; plant will probably be completed this month. Edgar A. Allott, Engr., Mount Holly, N. J. John A. Kinney is interested.

ALTOONA, PA.—S. C. Corson, of Altoona, has been engaged to prepare plans for water-works for Juniata borough, Blair county, Pa. It is probable that a temporary dam and about four miles of pipe line will be constructed.

AVONDALE, PA.—J. W. Ledoux, 1319 Filbert St., Philadelphia, is reported to have prepared plans for works at this place; supply from creek; probable cost, $10,000. J. L. Paiste, Chn. Water Com.

CHARLEROI, PA.—The water company is talking of building a reservoir.

CHESTER, PA.—A permanent injunction has been granted restraining the borough of Norwood from borrowing $30,000 for water-works, sewers, etc.

CORAOPOLIS, PA.—The construction of works will probably be commenced soon; water supply from the Ohio River; estimated cost, $25,000 to $30,000, for which bonds will be issued. E. H. Ferres, Clk.; J. W. Arras, Chn. Com.

CORAOPOLIS, PA.—Bids are asked until July 25 for the purchase of $8,000 in 4½% 5 to 30-year water bonds. E. H. Ferree, Clk. of Council.

DRIFTWOOD, PA.—The question of water-works will probably be revived at this place at an early date.

DUSHORE, PA.—B. S. Collins, Secy., writes us that capital has been partially secured for the construction of a $15,000 water-works plant by a private company.

GROVE CITY, PA.—The Grove City Water Co. secured a charter some time ago but has not yet been granted a franchise; probable cost of plant, $25,000; work must be commenced within 1½ years to retain charter. J. C. Van Orsdell, Cy. Clk.

HATBORO, PA.—No definite action has been taken by council in regard to water-works, although the question is being discussed; water supply will probably be pumped from an artesian well to a stand-pipe. Comly Walton, Clk. of Council.

JERMYN, PA.—Property owners have secured a temporary injunction restraining the borough authorities from issuing $16,000 in bonds for water-works.

LANCASTER, PA.—The Conoy Water & Power Co. was incorporated July 17 with a capital stock of $1,000. Treas. Edward R. Heitshue, Lancaster.

LEBANON, PA.—The council has passed a bill providing for an election July 25 to vote on an issue of $200,000 in bonds for a water supply from Hammer Creek, according to reports.

LIGONIER, PA.—An election will be held Aug. 7 to vote on a 2% tax for water-works. Bids for constructing a system were opened last month, as advertised in Engineering News. L. W. Fogg, Engr., Latrobe, Pa.

LINESVILLE, PA.—The Bunday Water Co. is constructing works at this place; supply from springs. S. W. Lowing, Clk. of Council.

LITTLETOWN, PA.—This borough is sinking a well and it is stated that $15,000 in bonds will be issued for works. E. M. Kenly, Engr., Baltimore, Md.; Abia Smucker, Secy.

MIFFLINBURG, PA.—Authority has been obtained from the legislature for the construction of works estimated to cost $30,000; supply by gravity from mountain stream. T. M. Getgen, Town Clk.

MILLHEIM, PA.—There has been some talk of organizing a water company at this place; supply by gravity from a mountain stream 1½ miles distant; estimated cost, $4,000. H. E. Duck, Clk.

NAZARETH, PA.—The Nazareth Water Co. has important extensions of its plant in contemplation. The town is negotiating for the purchase of the plant. Frank Kunkel, Treas.

PITTSBURG, PA.—Bids are asked until July 28 for furnishing and erecting at Garfield pumping station two compound condensing duplex pumping engines of 1,500,000 gallons capacity each. E. M. Bigelow, Dir. Pub. Wks.

TYRONE, PA.—Bids are asked until Aug. 1 by the Tyrone Gas & Water Co. for the construction of a reservoir, as stated in our advertising columns. T. J. Humphreys, Engr.; C. A. Morris, Secy.

WEST BROWNSVILLE, PA.—Geo. Jenkins, of Monongahela, has been engaged as engineer of the proposed works at this place, estimated to cost $8,000; water supply will be pumped from Monongahela River to reservoir. J. D. S. Pringle, Burgess.

YORK, PA.—William H. Griffith, of this city, is treasurer of the following three water companies, each incorporated July 20 with a capital stock of $1,000: Water Company of Manchester Township; Water Company of Spring Garden Township; Water Company of West Manchester Township.

ABERDEEN, MD.—The town commissioners are reported as soon to call an election to vote on an issue of bonds for water-works and other improvements.

BALTIMORE, MD.—Bids are asked until July 25 for 15 tons of Omaha pig lead for the water department. William L. Kenly, Ch. Engr.

HYATTSVILLE, MD.—A. Cass, Clk., writes us that no official action has been taken by corporation in regard to water-works.

OAKLAND, MD.—We are informed that the question of water-works has been abandoned for the present.

SNOW HILL, MD.—It was expected that the construction of works at this place would be commenced last week, plant to be completed by Jan. 1; water supply to be pumped from wells to stand-pipe; estimated cost, $18,000. E. S. Dashiell is interested.

TANEYTOWN, MD.—This city expected to commence the construction of works this month; water supply to be pumped from springs; estimated cost, $12,000. H. D. Mehring, Burgess; L. D. Reid, Clk.

TAKOMA PARK, D. C.—Geo. A. Warren, Town Treas., writes us that the charter of this town provides for the construction of water-works and that the council has discussed the cost of same, but it is not probable that additional action will be taken this year; water supply would probably be pumped from deep wells or Sligo Creek to stand-pipe.

FALLS CHURCH, VA.—M. E. Church, who was granted a franchise some time ago, writes us that the necessary capital has not all been secured and it is not known when the construction will be commenced; water supply from springs or artesian wells; probable cost $25,000.

RIVERTON, VA.—It is reported that the Royal Water Co., of Front Royal, Va., contemplates extending its gravity system to this place, about two miles.

GASTONIA, N. C.—This city has talked some of constructing works to cost about $30,000, but no legislative authority has yet been secured or definite action taken. Edgar Love, Clk.

LOUISBURG, N. C.—Geo. S. Baker, Cy. Clk., writes us that the question of water-works has not yet assumed definite shape.

WILMINGTON, N. C.—The water company may possibly erect a filter plant; question not decided. W. F. Robertson, Supt.

CHARLESTON, S. C.—A local paper states that Capt. U. R. Brooks will organize a water company to furnish the city with a water supply from artesian wells.

CHESTER, S. C.—C. C. Edwards, Clk., writes us that Perry Andrews, of Atlanta, Ga., has been awarded the contract for an artesian well and work has commenced; nothing will be done about plans for water-works until the well is completed, which will be about Oct. 1; population, 4,100.

GAFFNEY CITY, S. C.—This town has been granted authority to construct works to cost $15,000, but no commissioners have been appointed or bonds issued; water supply from springs 1½ miles distant. L. Baker, Town Clk.

EAST ROME, GA.—This town is laying water mains; supply from the mains of the city of Rome. O. H. McWilliams, Mayor.

HAWKINSVILLE, GA.—S. A. Way, Mayor, writes us that the plans and specifications for proposed water-works, etc., have not yet been completed.

HOGANSVILLE, GA.—We are informed that no definite action has been taken in regard to water-works in this town, although there has been some talk of a gravity system.

LAKELAND, FLA.—C. D. Clough, Cy. Clk., writes us that the question of water-works is now under consideration.

MIAMI, FLA.—The construction of work has been commenced, plant to be finished by Jan. 1. A. L. Knowlton, Engr.

GENEVA, ALA.—Wm. J. Hall, City Clk., writes us that this city desires water-works but that no definite action has yet been taken.

GURLEY, ALA.—Giles, Vance & Co., of Maysville, Ala., are the contractors for works in this city, to cost about $1,000; plant to be completed in 60 days; water supply to be pumped from an artesian well to a tank. F. T. Walker, Engr., Gurley.

ABERDEEN, MISS.—R. P. Houston, Cy. Clk., writes us that this city will probably have works soon, but has not yet taken definite action. J. M. Acker, Mayor.

BAY ST. LOUIS, MISS.—R. Mendes, Cy. Clk., writes us that nothing is now being done in regard to the proposed water-works.

GREENWOOD, MISS.—An artesian well has been sunk, flowing 30 ft. above surface of ground, but nothing definite has been done in regard to water-works.

WEST POINT, MISS.—The city clerk writes us in regard to the proposed works that no definite system has yet been decided upon.

LAFAYETTE, LA.—A press report states that the contract for constructing water-works and an electric light plant has been awarded to James Ferguson, of New Orleans, at $36,000, for which amount bonds will be issued.

WASHINGTON, LA.—This place is reported to have been granted legisuative authority to issue bonds for a water-works and electric light plant.

CLARKSVILLE, TENN.—The contract for a 25 × 100-ft. stand-pipe has been awarded to Walsh & Weidner, of Chattanooga, at $5,434, exclusive of foundation; 125 tons of 12 and 10-in. pipe has been purchased of the South Pittsburg Pipe Works, at $22.50 a ton delivered; valves purchased of the Chapman Valve Co. J. N. Hazelhurst & Co., Consult. Engrs., Atlanta, Ga.; R. E. McCulloch, Supt.

DECHERD, TENN.—It is probable that works to cost $35,000 will be constructed to supply this place and Winchester. E. D. Sanford may be addressed.

MARTIN, TENN.—J. E. Kennedy, Mayor, writes us that the legislature will be petitioned in January for authority to issue $15,000 to $18,000 in bonds for works and the contracts awarded as soon thereafter as possible; water supply will probably be pumped from a deep well to a stand-pipe; no engineer has been engaged.

ROCKWOOD, TENN.—J. A. Shadden, Cy. Recdr., writes us that legislative authority was secured some time ago but that no election has been held or other steps taken toward the construction of works.

TULLAHOMA, TENN.—Geo. W. Davidson, Cy. Recdr., writes us that it is expected to secure authority and commence the construction of a $25,000 water-works plant next year.

SPRINGFIELD, KY.—H. R. Thompson, Clk., writes us that the construction of works will probably be commenced next month; plant will include a stand-pipe; probable cost, $2,200.

UNIONTOWN, KY.—The question of water-works is now being discussed but nothing definite has been decided; probable cost, $20,000.

WEST COVINGTON, KY.—It is stated that a company will construct works at this place if enough takers can be procured; water supply from the Covington reservior at Newport, Ky. Joseph Ryan, Cy. Clk.

BLANCHESTER, O.—G. L. McKibben, Cy. Engr., Van Wert, O., has been engaged to prepare plans and specifications and to superintend the construction of the proposed water-works and electric light plant at this place.

CLEVELAND, O.—Bids are asked until Aug. 14 for building foundations of a new smoke-stack, for a short aqueduct and other work at the Division St. pumping station. D. E. Wright, Dir. Pub. Wks.

COSHOCTON, O.—A large well and a new pumping engine are among the projected improvements. D. A. Raiff, Supt.

EAST CLEVELAND, O.—At a special election last week only 20 votes of the 196 were opposed to the issue of bonds to lay water pipes.

FOSTORIA, O.—A press report states that the trustees of the water-works have voted to require all consumers to put in meters.

GREENWICH, O.—B. J. Ashley, of Chicago, is reported to have prepared plans for works at this place; supply to be pumped from the wells to stand-pipe; probable cost, $14,000; no definite action yet taken. I. J. Brooks, Clk.

HIRAM, O.—Contract for constructing works to cost about $12,000 will probably soon be awarded. Edwin L. Hall, Clk.

IRONTON, O.—Bids are asked until Aug. 1 for furnishing and placing in position a 150-HP. boiler. Geo. A. Meyers, Pres. Trustees.

MANSFIELD, O.—S. C. Clark, Supt., writes us that the proposed extensions include 12,000 ft. of 6-in. main, with 25 hydrants and 18 6-in. valves; work to be done by the city; water mains, valves and hydrants to be furnished by the Barnes Mfg. Co., of Mansfield.

PIQUA, O.—The proposition to issue $20,000 in bonds for water-works improvements lacked 60 votes of the necessary two-thirds, at the recent election and the improvements will not be made at present.

WEST ALEXANDRIA, O.—W. H. Burbaker, Clk., writes us that the question of water-works is not yet settled; water supply could probably be pumped from wells to stand-pipe; probable cost, $17,000.

ZANESVILLE, O.—The water-works trustees are reported as planning several improvements, including a pumping engine to cost $10,000 or $12,000.

SULLIVAN, IND.—R. H. Hutchison writes us that the Howe Pump & Engine Co., of Indianapolis, has the contract for works, to be completed Nov. 1. John H. Hainesworth, Engr., Indianapolis.

WALKERTON, IND.—Bids are asked by the Walkerton Water-Works Co. for the erection of a tower, pumping station and equipping of a complete system of water-works, as stated in our advertising columns. Wm. Clem, Secy.

BENTON HARBOR, MICH.—A press report states that the 13 wells from which the city water supply is obtained are inadequate to supply the demands and that the supply is decreasing.

HIGHLAND PARK, MICH.—The injunction to prevent this village from constructing works has been dissolved and it is stated that the construction will now be pushed as rapidly as possible; the village is to lay 26,445 ft. of pipe beyond the Detroit city limits, at a cost of $23,000, and pay the city 3 cts. for each 1,000 gallons of water used.

THREE OAKS, MICH.—Bids are asked until Aug. 7 for constructing works. Geo. C. Morgan, Engr., Chicago; F. B. Hinehman, Clk.

ASSUMPTION, ILL.—The town council is reported to have appropriated $20,000 for a water supply.

CHICAGO, ILL.—Bids are asked by the department of public works until July 27 for laying water mains in 24 streets.

EDWARDSVILLE, ILL.—Bids are asked until Aug. 4 by the committee on water-works for the construction of works, for which plans have been prepared by F. W. Raeder, Equitable Bldg., St. Louis.

GALENA, ILL.—The city council is negotiating with the Galena Water Co. for the purchase of the works.

GENOA, ILL.—The construction of works to cost $8,000 will probably be commenced in February. Hill & Enricht, Engrs., Chicago; A. U. Schneider, Cy. Clk.

GREENUP, ILL.—It is probable that works to cost $10,000 will soon be constructed at this place. M. T. Monohon, Clk.

JOLIET, ILL.—An election will probably be held Aug. 25 to vote on an issue of $200,000 in bonds for a water supply from artesian wells.

OAKLAND, ILL.—It is stated that C. J. Taber will commence the construction of works at this place about Sept. 1; water supply to be pumped from river to stand-pipe; probable cost, $12,000. Andy Shaffer, Engr.; Col. F. Gruber, contractor, both of Oakland.

PLYMOUTH, ILL.—It is reported that an election was held last week to vote on an issue of $3,000 in bonds for water-works.

SHELDON, ILL.—The contract for constructing works will probably be awarded at an early date; probable cost, $30,000. Jacob A. Harman, Engr., Peoria; M. B. Wood, Clk.

TONICA, ILL.—J. W. Richardson, Clk., writes us that this village wants water-works, but does not feel able to construct a plant at present.

BANGOR, WIS.—It is probable that the construction of works will be commenced in September although nothing definite has yet been decided. R. W. Davis, Town Clk.

LA CROSSE, WIS.—Bids are asked until July 27 for constructing a water main in 12th St., from Badger to La Crosse St. Jacob Hahn, Secy. Bd. Pub. Wks.

MANAWA, WIS.—We are informed that works will probably be constructed at this place next year.

MILWAUKEE, WIS.—The water main crossing the Milwaukee River at Michigan St. broke July 12 causing a loss of about 10,000,000 gallons of water, according to local papers.

OSHKOSH, WIS.—The city has opened bids for $20,000 in water bonds authorized for extensions of the water mains in the manufacturing districts.

PORTAGE, WIS.—Receiver Maxcy, of the water company, is quoted as stating that work on the new intake will not be begun until Aug. 15.

SHULLSBURG, WIS.—The council is reported to have voted to call a special election to vote an appropriation for a stand-pipe.

WAUPACA, WIS.—The council has selected a site for a reservoir at an elevation of 117 ft. above Main St.

WAUPACA, WIS.—F. S. Baldwin and A. M. Harsen are expected soon to commence work on a water-works system to cost $45,000, plant to be completed within one year; water supply to be pumped from river to stand-pipe. C. G. Burbank, Cy. Clk.

WAUWATOSA, WIS.—Myron Gilbert, ex-Village Clk., writes us that the decision of the Supreme Court two or three weeks ago was that the law under which villages have been incorporated in this state is unconstitutional and that nothing is therefore now being done to construct water-works in this village.

BEDFORD, IA.—There is talk of constructing works to cost $20,000. F. S. Sturtevant, Clk.

DOON, IA.—Bids are asked until Aug. 3 for constructing works, as stated in our advertising columns. L. F. Wakefield, Engr., Sioux City; A. N. Thompson, Town Clk.

ELGIN, IA.—It is probable that works to cost $6,000 will be constructed. L. Y. Ehrich, Chn. Com.

GRANVILLE, IA.—It is reported that bids were received July 21 for constructing works. F. E. Wade, Engr., Sheldon, Ia.; N. H. Graff, Cy. Recdr.

LOHRVILLE, IA.—Bids are now asked, according to reports, for constructing works for which $4,500 in bonds have been voted. Fairbanks, Morse & Co., Engrs., Chicago; W. J. Gillam, Cy. Recdr.

RUTHVEN, IA.—E. C. Rowell, Mayor, writes us that this city will not be in condition financially to construct works for a year or more.

SANBORN, IA.—It is probable that works will be constructed at a cost of about $5,000. F. B. Owen, Recdr.

FOSSTON, MINN.—Bids are asked until July 28 for the purchase of $10,000 in bonds, voted June 30, for water-works and electric lights. I. O. Brandt, Cy. Recdr.

ST. PAUL, MINN.—The contract for the pumping station at Centreville has been awarded to Hennessy & Cox, at $9,429.

ROCHESTER, MINN.—Burt W. Eaton has been appointed receiver of the water company at this place.

WATERVILLE, MINN.—A. W. Knaak, Recdr., writes us that this village expects to construct works, but that no definite information can now be given.

GREENWOOD, S. DAK.—Bids are asked for furnishing all material and putting down one or more artesian wells on the Yankton Indian reservation. James A. Smith, U. S. Indian Agent.

BIG TIMBER, MONT.—It is reported that this city is about to construct water-works.

BELT, MONT.—P. C. Kittle, Mgr. Castner Coal & Coke Co., writes us that the private works noted in our issue of July 2 is nearly completed.

MISSOULA, MONT.—Bids are asked until Aug. 10 for furnishing the city with water for 10 or 20 years, at least 30 hydrants to be contracted for. It is reported that improvements to cost $40,000 to $50,000 are needed in the present plant.

WHITE SULPHUR SPRINGS, MONT.—It is reported probable that bonds will be issued and works constructed at this place. Powell Black, Cy. Clk.

ALBANY, MO.—W. W. Millen, Clk., writes us that no action has been taken by the council except to offer a franchise to any good party who will put in a plant.

GLASGOW, MO.—The contract for a stand-pipe is reported to have been awarded to the Warren City Boiler Works, of Warren, O., at $1,198.

KANSAS CITY, MO.—The board of public works is examining pumping machinery with a view to buying a new pump for the Turkey Creek station.

RICHMOND, MO.—This city is reported to have voted in favor of works to cost $45,000.

ST. LOUIS, MO.—The estimates for the water department include $275,000 for pipe, $500,000 for extensions and new work and about $70,000 for miscellaneous work.

COTTON PLANT, ARK.—F. B. Robinson, Recdr., writes us that works to cost about $1,000 will probably be constructed this year.

HEMPSTEAD, TEX.—Bids are asked by the Hempstead Artesian Well Works Co. until July 20 for sinking an artesian well 1,200 ft. deep. M. Schwarz, Secy.

HICO, TEX.—It is probable that works to cost $7,000 will be constructed this winter; no definite action yet taken. G. W. Hall, Cy. Secy.

ROGERS, TEX.—We are informed that J. C. Thompson, of Waco, Tex., has been awarded the contract for an artesian well at this place.

SEABROOK, TEX.—An artesian water supply of 50,000 gallons daily has been obtained at a depth of 570 ft.

BUENA VISTA, COLO.—The town contemplates the construction of a reservoir with seepage supply. H. M. Kemble, Supt.

CASTLE ROCK, WASH.—H. Orchard & Co., of Kalama, Wash., will probably construct works at this place to cost about $5,000. A. J. Hicks, Clk.

ILWACO, WASH.—H. A. Cory, Clk., writes us that there has been some talk of water-works, but nothing definite has been done.

KALAMA, WASH.—H. Orchard, Pres. Orchard Water Co., writes that works to cost $15,000 have just been completed at this place.

SEATTLE, WASH.—This city voted $1,200,000 at the general election for the construction of a gravity water supply of 25,000,000 gallons daily from Cedar River. Several surveys have been made and reports state that it has been decided to build a dam in Cedar River which will turn the water into Swan Lake, from which place a conduit will be built to the terminus of the present city mains at Lake Washington.

HARNEY, ORE.—There is some talk of constructing works. Address the clerk.

WARRENTON, ORE.—There is talk of constructing works to supply this place, Flavel and New Astoria, at a cost of $45,000.

AZUSA, CAL.—We are informed that the water-works project noted in our issue of July 2 has been defeated.

LAKEPORT, CAL.—This town will probably construct works to cost $15,000 within a year; nothing definite yet decided. H. V. Keeling, Town Clk.

SANTA ANA, CAL.—The water company has appointed a committee to investigate the feasibility and probable cost of a reservoir near Anaheim, for storage purposes in the summer months.

SUISUN, CAL.—O. B. Powers, Town Clk., writes us that at the election July 13 the proposed issue of $42,000 in bonds was authorized by a vote of 122 to 6. O. H. Buckman, Engr., Napa City, Cal.

KENDRICK, IDAHO.—It is probable that a gravity system will be constructed; probable cost, $11,000; bonds now for sale. W. R. Graham, Engr., Kendrick; Lewis Hunter, Clk.

DESERONTO, ONT.—It is reported that this place is likely to construct works at a cost of $35,000.

LISTOWELL, ONT.—An election will be held Aug. 21 to vote on an issue of $15,000 in bonds for water-works, a gas or electric light plant, etc.

LONDON, ONT.—Surveys and plans are being prepared for increasing the water supply. John M. Moon, Supt.; O. Ellwood, Secy.

OWEN SOUND, ONT.—T. I. Thomson, Chn., writes us that metering is the most important change contemplated at present. Isaac Markle, Supt.

STURGEON FALLS, ONT.—H. E. McKee, Town Clk., writes us that bids will probably be received in September for constructing works estimated to cost $17,500; soil is sandy and very level; water supply to be pumped from the Sturgeon River. Alan Macdougall, Engr., Toronto.

ST. JOHN, N. B.—The city proposes to improve the pressure on heights by installing a small pumping plant to be driven by water power. Wm. Murdock, Engr. and Supt.

IRRIGATION.

DENVER, COLO.—Colorado and New York capitalists are said to be considering plans for building a storage reservoir in the Platte canyon for irrigation and power purposes. This reservoir will hold the waters of the South Platte River and is estimated to cost about $1,800,000. Engrs., S. G. Rhodes, of Denver, and Mr. Cook, of Chicago. Sylvester Smith and Cyrus W. Fisher, of Denver, are interested.

CUERO, TEX.—Press reports state that the object of the Cuero Power & Irrigation Co., noted in our issue of last week as incorporated by Alex. Hamilton, V. Weldon, J. J. Sumners, F. A. Taylor and Sam C. Lackey, is the construction of a dam across the Guadalupe River in De Witt county at or near a place known as Hell Gate, for diverting a portion of the water of the stream into ditches for irrigating the adjacent lands. The corporation will also have the right to build a power house, for milling, manufacturing and irrigating, and to furnish water for water-works and sewers for Cuero, and to furnish power for electric lights.

NEW COMPANIES.—Rio-Grande Land & Irrigation Co., El Paso, Tex.; $5,000; Isaiah A. Barnes, William Bremme, James Longwell.

Calamus Valley Irrigation Canal Co., Taylor, Neb.; $3,500; R. Hesselgesser, J. J. Collopy, C. B. Hesselgesser, M. A. Hesselgesser.

SEWERAGE.

BOSTON, MASS.—Bids are asked until July 27 for constructing 1,500 ft. of 18 and 15-in. pipe sewers. The work will include 750 cu. yds. of solid and loose rock excavation. Benj. W. Wells, Supt. of Sts.

QUINCY, MASS.—We are informed that the council has appropriated $5,000 for surveys, maps, etc., for a sewer system. The system has been adopted and work will be begun early next year. C. F. Knowlton, Comr. Pub. Wks.; Albert F. Schenkelberger, Sewer Comr.

WORCESTER, MASS.—F. A. McClure, Cy. Engr., informs us that $100,000 has been appropriated by the council for a sludge disposal plant, for which plans are now being prepared. Local papers state that the city engineer was authorized by the council on July 13 to engage an engineer and also a chemist to consult with him on the plans for the sewage separation system.

PROVIDENCE, R. I.—Bids are asked until Aug. 3 for constructing about 3,500 ft. of 105 × 75 to 36-in. brick sewers, etc., as described in our advertising columns. Robt. E. Smith, Comr. Pub. Wks.

WOONSOCKET, R. I.—Bids are asked by the sewer commissioners until Aug. 17 for constructing sections 1, 2 and 3 of the sewer system, as described in our advertising columns. The work will consist of a river wall, about 4,350 ft. of 36 to 30-in. brick sewers, four siphons under the Blackstone River, etc. Consult. Engr., Rudolph Hering, New York, N. Y.; S. P. Cook, Cy. Treas.; Arthur R. Sweet, Supt. Sewer Dept.

BROOKLYN, N. Y.—Bids are asked until Aug. 4 for constructing sewers in three streets. Theo. B. Willis, Comr. Cy. Wks.; R. M. Whiting, Secy.

BUFFALO, N. Y.—The council has ordered the board of public works to prepare plans and specifications and advertise for bids for constructing pipe sewers in nine streets.

JAMESTOWN, N. Y.—B. T. Wheeler, of Boston, Mass., has recommended the construction of sewage filtration beds.

TROY, N. Y.—Bids are asked until July 28 for constructing sewers in five streets. E. Ogden Ross, Secy.

YOUNGSTOWN, N. Y.—Bids are asked until Aug. 5 for a system of surface drainage at Fort Niagara, N. Y. Lieut. P. C. Harris, Q. M., U. S. A.

IRVINGTON, N. J.—Merton B. Owen and W. C. Ward, Jr., have been appointed by Clinton township to confer with the sewer committee of this place on plans for a system.

MONTCLAIR, N. J.—The committee has reported in favor of about 10,000 ft. of sewer extensions in Park and Chestnut Sts., at a cost of about $30,000.

PITTSBURG, PA.—Bids are asked until July 31 for constructing 36-in. brick sewers in two streets, and 18 and 15-in. pipe sewers in 25 streets. E. M. Bigelow, Dir.

READING, PA.—The city engineer has been directed to prepare specifications for extending the storm sewer in Penn Ave., and for making house connections and other extensions in this avenue, as it is proposed to pave Penn Ave. at a cost of about $100,000.

SHARPSBURG, PA.—An election will soon be held to vote on the question of increasing the debt for constructing a system.

YEADON, PA.—Bids are asked until Aug. 24 for the purchase of $11,000 of sewer bonds. Albert Moore, Secy.

CHILLICOTHE, O.—J. P. Force, of Fostoria, O., has completed plans for a system to cost about $94,000. Edward Kern, Chn. Com.

CLEVELAND, O.—Bids are asked until Aug. 5 for constructing sewers in two streets. D. E. Wright, Dir. Pub. Wks.

MIDDLETOWN, O.—L. Martin, Secy., writes us that only preliminary steps have as yet been taken toward a sewer system. The committee was organized July 7.

FRANKFORT, IND.—Bids are asked until Aug. 11 for the construction of about 966 ft. of 10-in. pipe sewer, with 6-in. house connections, with two manholes and one flush tank. A. J. Hammond, Cy. Engr.; Jas. A. Price, Cy. Clk.

MONMOUTH, ILL.—John W. Matthews, J. A. Higgins and Geo. B. Denman have been appointed a committee to consider the advisability of building a sewer in South Second St.

MONTICELLO, ILL.—Bids are asked until Aug. 4 for constructing about 3,700 ft. of pipe sewers, etc., as described in our advertising coumns. D. E. Widdersheim, Cy. Clk.; Ray S. Carberry, Engr., Monticello.

LA CROSSE, WIS.—Bids are asked until July 25 for constructing 15 and 12-in. pipe sewers in Eighth St. S. F. Nice, Chn. Comr. Pub. Wks.; Fred Ring Comptroller.

DES MOINES, IA.—Bids are asked until July 27 for constructing a 12-in pipe sewer in 27th St. John Sherman, Geo. C. Sims, Bd. Pub. Wks.

MASON CITY, IA.—Plans are being prepared for over a mile of 22-in. pipe and about half a mile of 10-in. pipe sewers, which will probably be built in the fall. Chester T. Dike, Cy. Engr.

SAN FRANCISCO, CAL.—It is reported that a resolution has been adopted by the supervisors ordering the city engineer to prepare plans for a system of sewers petitioned for by the Potrero Land Improvement Co. J. A. Russell, Clk.

HAMILTON, ONT.—W. F. Grant & Co., of Toronto, Ont., have been awarded the contract for furnishing a supply of sewer pipe.

GARBAGE DISPOSAL—STREET CLEANING.

ALTOONA, PA.—A committee has been appointed by the councils to investigate certain plans for a garbage disposal plant, according to reports.

PITTSBURG, PA.—The American Reduction Co. has been directed by the court not to deposit garbage at its plant until certain projected improvements are made to destroy the unpleasant odors.

STREETS AND ROADS.

BOSTON, MASS.—The Metropolitan Park Commission is reported to be in favor of building the Charles River Boulevard, for which the last legislature passed a bill appropriating $1,000,000.

BOSTON, MASS.—Bids are asked until July 24 for 13,000 sq.yds. of brick sidewalks, 8,960 lin. ft. of edge stones, etc. Benj. W. Wells, Supt. of Streets.

LOWELL, MASS.—It is proposed to pave 2,000 sq. yds. of Moody St. with brick. Geo. Bowers, Cy. Engr.

WATERTOWN, MASS.—It is proposed to widen and improve Mount Vernon St. at a cost of $60,000, about $25,000 of which is for land damages.

PAWTUCKET, R. I.—The committee has been petitioned to pave 3,000 lin. ft. of Cottage St. with asphalt; estimated cost, $20,000.

PROVIDENCE, R. I.—Arrangements are being made by the state commissioner of roads for the construction of half-mile sample macadam roads in a number of towns, for which the general assembly over a year ago approved an appropriation of $60,000.

HARTFORD, CONN.—Press reports state that 87 towns have applied to the Connecticut highway commission for state aid in constructing improved highways. Each town which completes its work will receive about $850 as its share of the state appropriation. Last year each town received $980, but more towns applied this year than last. Following is a list of towns that will receive a share of the state appropriation this year; James H. McDonald, Chn., 25 and 27 Capitol, Hartford:

Hartford county—Hartford, Avon, Berlin, Bloomfield, Bristol, East Hartford, East Windsor, Enfield, Farmington, Glastonbury, Manchester, New Britain, Newington, Plainville, Rocky Hill, Southington, South Windsor, Suffield, West Hartford, Wethersfield, Windsor, Windsor Locks.

New Haven county—New Haven, Ansonia, Derby, Hamden, Meriden, Middlebury, North Branford, North Haven, Orange, Seymour, Wallingford and Woodbridge.

New London county—New London, Norwich, Bozrah, Griswold, Groton, Montville, Voluntown, Waterford.

Fairfield county—Darien, Easton, Fairfield, Greenwich, Huntington, New Caanan, Norwalk, Ridgefield, Stamford, Stratford, Trumbull, Westport, Wilton.

Windham county—Brooklyn, Eastford, Killingly, Plainfield, Pomfret, Putnam, Thompson, Windham.

Litchfield county—Litchfield, Bethlehem, New Milford, Plymouth, Thomaston, Torrington, Watertown.

Middlesex county—Middletown, Cromwell, Durham, East Haddam, Essex, Middlefield, Old Saybrook, Portland, Saybrook.

Tolland county—Tolland, Andover, Ellington, Mansfield, Somers, Stafford, Vernon.

LYMOUTH, CONN.—Henry E. Hinman, First Selectman, Terryville, Conn., informs us that the following bids were received July 8 for constructing 2,650 lin. ft. of macadam road: Fred T. Ley & Co., Springfield, Mass., $1.40 per lin. ft. for road in Terryville, and $1.85 per lin. ft. for the Plymouth Hill section; W. H. Scott & Co., Peoquabuck, Conn., $1.39 and $1.75; John H. Doolittle & Co., New Haven (awarded contract), $0.98 and $1.28.

BROOKLYN, N. Y.—Bids are asked until July 27 for granite block repaving in Main St. and Maspeth Ave. Theo. B. Willis, Comr. Cy. Wks.——It is proposed to repave portions of Driggs and Putnam Aves. with asphalt at a cost of $47,000; Cropsey Ave. with macadam, at a cost of $37,000, and Bath Ave. with Belgian blocks, at a cost of $24,000.——The park commissioner proposes to macadamize the Park Plaza at a cost of $30,000.——E. J. McKeever & Bros. were the lowest bidders on the granite block paving in Tompkins Ave., at $37,442.

DEPEW, N. Y.—Bids are asked until July 27 for about 3,000 lin. ft. of macadam paving. Anthony Hartung, Village Treas.; Patrick E. Scully, Clk.

FLUSHING, N. Y.—We are informed that the following bids were received July 9 for macadamizing 2¼ miles of Bell Ave., as advertised in Engineering News; G. A. Roullier, Engr., 20 Main St., Flushing:

Thomas F. Touhy, Flushing	$31,282
Smith & Burden, Long Island City, N. Y.	27,855
Thomas J. McKenna, 35 Broadway, New York	26,826
Harvey B. Peace, Flushing	24,862
Wm. F. McCabe, Mamaroneck, N. Y.	23,742
*Ridgeway & Chapman, 253 Broadway, New York	21,763

*Awarded contract.

JAMAICA, N. Y.—Bids are asked until July 30 for macadamizing a road nine miles long between Jamaica and Hempstead, and until Aug. 6 for macadamizing a road two miles long, from Newtown to Jamaica, as described in our advertising columns. Robt. Seabury, Clk.; John J. McLaughlin, County Engr., Bank Bldg., Jamaica.

LANSINGBURG, N. Y.—The question of paving Second Ave. at a cost of about $100,000 is being discussed.

NEW YORK, N. Y.—Bids are asked by the department of public parks, the Arsenal, Central Park, until July 27, for about 14,000 sq. yds. of granite block paving, 2,200 sq. yds. of gravel paving, 31,000 sq. ft. of concrete walk, etc., and for other work in constructing Riverside Park and Drive, from 120th to 129th St; surety, $70,000.

NEW YORK, N. Y.—Bids are asked until Aug. 1 for asphalt paving in Alexander Ave., and for sewers in two streets, etc. L. F. Haffen, Comr.

NORTH TONAWANDA, N. Y.—The board of trustees of the village has announced its intention to have several streets graded and some paving done. Bids will be invited for the work.

ROCHESTER, N. Y.—Bids are asked until July 24 for cement sidewalks in four streets. Thos. J. Neville, Clk.——The city engineer is preparing plans for asphalt paving in Monroe St., from Oxford to Alexander St.

ROCHESTER, N. Y.—It is proposed to pave Allan St. with Medina stone at a cost of $32,000, and South St. Paul St. at a cost of $24,000, and make improvements in seven streets, at a cost of about $44,000. T. S. Pulver, Cy. Clk.

TROY, N. Y.—Bids are asked until July 31 for granite block paving in Vanderheyden St. E. Ogden Ross, Secy.

DELFORD, N. J.—Bids are asked until Aug. 3 for grading and macadamizing the streets of this borough, as stated in our advertising columns. R. W. Cooper, Mayor; Milton G. Demarest, Clk., address Oradell, N. J.

LONG BRANCH, N. J.—Bids are asked until Aug. 10 for constructing five miles of macadam road, with gravel wings, at Long Branch, as stated in our advertising columns. John Guire, Chn. Road Com.; W. H. De Nyse, Engr., Long Branch.

MAGNOLIA, N. J.—Gloucester county formally accepted the Swedesboro stone road on July 16 from the contractor, R. A. Montgomery, of Lambertville, N. J.; paying him the balance due. J. J. Albertson, Engr.

WOODBURY, N. J.—It is reported that at the meeting of the Gloucester county board of freeholders July 16 a committee of five was appointed to prepare plans and specifications for a stone road from Swedesboro to Paulsboro, which had been deferred for some time. The committee was also instructed to investigate the cost of shell roads. John S. Jessup, County Solicitor, gave an opinion that the cost of maintenance of stone roads would, after their acceptance, fall upon the county, and that no portion would be paid by the townships direct.

BLAIRSVILLE, PA.—It is stated that this place has voted to issue $10,000 in bonds for paving certain streets.

BRADFORD, PA.—Bids are asked until July 27 for paving portions of Jackson and Walker Aves., as stated in our advertising columns. James A Lindsey, Cy. Clk.

PITTSBURG, PA.—E. M. Bigelow, Dir. Pub. Wks., is making arrangements for constructing the Boulevard, bids for which will soon be asked.

PITTSBURG, PA.—Bids are asked until July 31 for grading, asphalt paving, curbing, macadamizing, etc., portions of 16 streets. Edward M. Bigelow, Dir. Pub. Wks.

READING, PA.—We are informed that a $100,000 appropriation ordinance is now pending to pave Penn St. with asphalt. John H. Keppelman, Member of Select Council; E. Chamberlain, Cy. Engr.

ANNAPOLIS, MD.—Bids are asked until July 28 for grading and paving in three streets. F. M. Ramsay, Ch. Bureau of Navigation, Washington, D. C.

WASHINGTON, D. C.—Bids are asked until Aug. 5 for constructing about 2,800 lin. ft. of a macadam road, 12 ft. wide. Maj. Geo. W. Davis, Pres. Antietam Battlefield Board, Washington.

FORTRESS MONROE, VA.—Bids are asked until Aug. 7 for constructing brick pavements and a concrete sea wall. J. W. Pullman, Asst. Q. M., U. S. A., Fortress Monroe.

WICKLIFFE, KY.—It is reported that J. B. Postlethwaite, of Paducah, Ky., has prepared plans for paving certain streets. W. T. White, W. O. Schelbourne and I. E. Conley are interested.

NASHVILLE, TENN.—The board of public works has decided to advertise for new bids for furnishing pipe, brick, clay and other street supplies.

CLEVELAND, O.—Bids are asked until Aug. 12 for asphalt paving in Princeton St., bond, $2,000. D. E. Wright, Dir. Pub. Wks.

EVANSTON, O.—Bids are asked until Aug. 8 for brick paving in two streets. Engr., Chas. A. Ewing, 36 Carlisle Bldg., Cincinnati, O.; Wm. H. Krapp, Clk.

SOUTH BEND, IND.—The city engineer has been directed to prepare specifications for paving three streets with brick.

BRAZIL, IND.—Kattman & Murphy, of Brazil, Ind., and Paris, Ill., have been awarded the contracts for macadamizing about 13¾ miles of road in Brazil and Posey townships, at $33,629. Thos. Phillips, County Audr.

GRAND RAPIDS, MICH.—We are informed that James McDermott has been awarded the contract at $38,317 for paving South Division St., from East Fulton St. to Fifth Ave., with cedar blocks on concrete, and that Gilner & Miller have the contract at $18,182 for cedar block paving in South Division St., from Fifth Ave. to Hall St.

PORT HURON, MICH.—Plans have been prepared for paving Stone St. with cedar blocks, laid on a pine board foundation, from Thomas St. to River St. It will require 14,230 sq. yds. of paving and 7,600 lin. ft. of curb stone; estimated cost, $14,462. F. F. Rogers, Cy. Engr.; Henry Raumeier, Supt. Pub. Wks.

CHICAGO, ILL.—Bids are asked until July 28 for about 2,000 lin. ft. of granite concrete combined curb and gutter in Garfield Park. Harvey T. Weeks, Pres.; Geo. F. Talty, Secy., West Chicago Park Comrs, Union Park.

GALESBURG, ILL.—Bids are asked until Aug. 3 for paving two streets with brick. M. J. Blanding, Cy. Engr.; A. W. Truedson, Cy. Clk.

BELOIT, WIS.—Bids are asked until Aug. 7 for about 8,000 sq. yds. of brick and macadam paving, as stated in our advertising columns. Edgar S. Greene, Pres. Bd. Pub. Wks.; E. F. Hansen, Secy.

KANSAS CITY, MO.—Bids are asked until Aug. 3 for grading the Atherton and the Barton roads. F. J. O'Flaherty, County Surv., Kansas City.

ST. PAUL, MINN.—Bids are asked until July 27 for improving and boulevarding Summit Ave., from Sixth St. to Rice St. R. L. Gorman, Pres.; John C. Mueller, Clk. Bd. Pub. Wks.

TACOMA, WASH.—The "Ledger" of July 7 says the county commissioners have decided to again reject all bids for the construction of the Puyallup Boulevard, and to readvertise for new ones.

PORTLAND, ORE.—It has been decided to pave Washington St. with asphalt, work on which will be begun in September.

MANUFACTURING PLANTS.

YARMOUTH, ME.—It is stated that the Forest Paper Co. proposes to erect a new paper mill which will be two stories high with basement 150 × 50 ft.

BROOKLYN, N. Y.—Fire has partly destroyed the plant of the Alberine Varnish Works. The loss is estimated at $50,000. H. J. Romburg, F. J. Emanuel and Julius Hannan are the owners.

GLOVERSVILLE, N. Y.—It is stated that the Excelsior Fur Sewing Machine Co. intends to build a factory for the manufacture of sewing machines and bicycles. The company has options on several building lots and a building will be erected as soon as arrangements can be made.

NEW YORK, N. Y.—The Gas Engine & Power Co. of Morris Heights has plans and specifications for a new two-story machine shop, 250 × 76 ft., to be constructed of steel.

PAINTED POST, N. Y.—The Weston Engine Co., whose plant was recently destroyed by fire, will rebuild at once.

CONNELLSVILLE, PA.—It is reported that the contract has been let for the new plant of the Sloymaker-Barry Co. The building will be of steel.

ELWOOD CITY, PA.—A press dispatch states that the Baker Forge & Iron Co. is doubling the size of its forge works.

GREENVILLE, PA.—A press report states that the Lozier Tube Co. is to erect a large tube works, in which it will install entirely new machinery.

NEW CASTLE, PA.—Press reports state that an open-hearth steel plant may be erected costing about $750,000. Phelps, Dodge & Co., of New York; Norton Bros., of Chicago, and the tin plate and tubing mills at New Castle, Pa., are said to be among those who are backing the enterprise. The product of the plant will be hollow steel billets suitable for the manufacture of all kinds of tubing, including pipe.

POTTSTOWN, PA.—It is stated that the Glasgow Iron Co. is to erect another rolling mill.

CHARLOTTE, N. C.—The Louise cotton mill is being erected and will soon be ready for equipment. H. S. Chadwick, Pres., Charlotte, N. C.

COLUMBIA, S. C.—The Columbia Cotton Mills Co. has increased its capital stock from $700,000 to $1,000,000 and will either build an additional mill or largely increase the size of the present plant.

ATLANTA, GA.—The Atlanta Textile Mfg. Co. and the Piedmont Cotton Mills Co. have combined their capital and will build a large mill, which with the equipment will cost $500,000 or more and will be built at once. R. U. Hardeman, Pres.; W. J. Willingham, Mgr., Atlanta, Ga.

DONALDSONVILLE, LA.—A dispatch states that the Souvenir Sugar Refinery, three miles from here, has been destroyed by fire. The loss is about $75,000. Mr. Goldehaux, New Orleans, La., is the owner.

BRISTOL, TENN.—It is reported that the Willey Boom & Lumber Co. is adding a planing mill to its plant.

CANTON, O.—The Berger Mfg. Co. is pushing to completion a new building, 20 × 60 ft. in size, in which will be manufactured steel tubing for bicycles.

YOUNGSTOWN, O.—Press reports state that an addition is being made to the lower mill of the Union Iron & Steel Co., and improvements are being made in other departments.

JOLIET, ILL.—It is stated that Humphrey & Sons are building a large addition to their foundry. It will contain six pneumatic cranes.

MILWAUKEE, WIS.—Press reports state that the Yeuder & Paeschke Mfg. Co. contemplates the erection of a 40 × 69-ft. three-story addition to its tinware factory.

SAN FRANCISCO, CAL.—The Royal Eagle Distillery Co. has obtained a permit to build a four-story brick building at Powell and Ellis Sts., to cost about $41,345.

MINING.

PITTSBURG, PA.—A local paper states that George Barrett, of this city, has purchased a large tract of land on the river bank between Industry and Cook's Ferry, and will put in railway switches and open one of the largest stone quarries in the western part of the state, at a cost of about $25,000.

CRIPPLE CREEK, COLO.—It is stated that the new Ida May shaft will be sunk an additional 100 ft. For 40 ft. the chute holds firm and at even value and it is now proposed to sink and get below the ore. The vein has been opened by surface workings for a length of 1,000 ft.

DENVER, COLO.—The "Republican" has published a map showing the proposed system of the Pikes' Peak Mining Tunnel Ry. The main tunnel is to start from near Manitou, east of Pike's Peak, cut through the front range and pass under Victor, where are the Portland, Independence, Strong and other mines, at a depth of 2,800 ft., ending at Middle Creek, 21 miles distant. The project contemplates branch tunnels, for which the situation of Cripple Creek is so favorable. The main tunnel will be 14 ft. high and 18 ft. wide.

BUTTE, MONT.—The "Miner" contains the following items: The Anaconda mine is preparing to sink deeper levels, and a depth of 3,000 ft. will probably be reached.—It is reported that a 300-ton concentrator will be put in the Merrill mine at Porphyry dike, 17 miles north of Basin. The Pauper's Dream, at the same place, is soon to have a 300-ton mill. Other properties along the dike are being rapidly improved.—Adam O'Donnell will soon leave to work on his claim in the St. Joe district. He has a tunnel 60 ft. and expects to push it much farther this season.—L. F. Williams and others have purchased the Sullivan group of mines in East Kootenay. They will probably put in a concentrator next season.

GREEN VALLEY, CAL.—It is stated that Fred Jones, of Green Valley, and a number of other capitalists have located a promising quartz claim in El Dorado county. Vigorous operations are now being carried on and the company intends to erect a mill. The property is known as the Omo mine.

YUMA, ARIZ.—Wm. Luce is reported as to put up a 20-ton cyanide plant on the Colorado River, at El Rio.

CONTRACT PRICES.

ASPHALT, BRICK AND GRANITE PAVING.—Minneapolis, Minn.—F. W. Cappelen, Cy. Engr., writes us that the following bids were received July 10 for 16,242 sq. yds. of brick, 2,117 sq. yds. of asphalt and 422 sq. yds. of granite paving:

	5,873 sq. yds.	9,947 sq. yds.	1,695 sq. yds.	422 sq. yds.
Iowa Brick Co. (vit. brick)	$1.91	$1.89	....	$1.89
Des Moines Brick Mfg. Co.[1]	1.92	1.92	....	....
Des Moines Brick Mfg. Co.[2]	1.85	1.85	....	....
Columbia P. Co., Minneapolis[2]	1.99	1.96	....	1.82
E. M. Ayres (Utah Asp.)Zanesv[1]	....	....	$2.45	2.75
Warren-Scharf Asp. Pvg. Co.	....	....	2.49	2.83
Canney Bros., Minneapolis[3]	....	....	....	2.00

[1]Repressed brick. [2]Vitrified brick. [3]Granite.

SEWERS.—Fulton, N. Y.—We have received the following detailed statement of the bids received July 10 for constructing a system of sewerage as advertised in Engineering News: T's, Y's, slants, bends, split pipe and specials double the price of straight pipe; engineer's estimate, $50,000; Reeves Smith, Engr.; Geo. E. True, Pres. Comrs.; Arvin Rice, Clk. Comrs.:

BIDS FOR THE CONSTRUCTION OF A SYSTEM OF SEWERAGE, FULTON, N. Y., JULY 10, 1896

Quantities.	G. W. Barlow & Co., Seneca Falls, N. Y.	Dodge & McGregor, Buffalo, N. Y.	Lauer & Hagaman, Rochester, N. Y.	Geo. S. Miller & Co., Ottawa, Ill.	Lucius D. Hulburt, Syracuse, N. Y.	Patrick F. Curran, New York.	Johnson & Dwyer, Utica, N. Y.	Walter Bradley & Co., Fulton, N. Y.	C. Alden Smith, Buffalo, N. Y.	J. W. Austin, Syracuse, N. Y.	Johnson & Patrick, Fulton, N. Y.	Clement & Co., Niagara Falls, N. Y.	Beck & Bradley, Watertown, N. Y.	John Madigan, Yonkers, N. Y.	W. Prescoln, Reading, Pa.
20-in. vit. pipe furnished and laid.. 3,000 ft.....	$0.57	$0.55	$0.54	$0.50	$0.50	$0.46	$0.50	$0.57	$0.60	$0.49	$0.50	$0.46	$0.67	$0.51	$0.68
18-in. " " " " " .. 100 "	.55	.44	.43	.40	.45	.36	.39	.47	.45	.43	.39	.35	.55	.42	.57
15-in. " " " " " .. 8,100 "	.35	.30	.33	.37	.32	.28	.30	.37	.35	.32	.30	.26	.41	.32	.48
12-in. " " " " " .. 3,400 "	.25	.22	.24	.33	.25	.22	.21	.27	.25	.22	.22	.18	.30	.24	.40
10-in. " " " " " .. 2,500 "	.17	.18	.19	.30	.22	.18	.17	.23	.20	.17	.18	.14	.22	.18	.17
8-in. " " " " " .. 57,400 "	.13	.12	.14	.22	.18	.12	.12	.15	.13½	.11	.14	.10	.16	.17	.13
6-in. " " " " " .. 2,900 "	.09	.09	.10	.14	.15	.11	.09	.13	.09	.10	.11	.07	.11	.10	.10
4-in. " " " " " .. 3,000 "	.07	.07	.07½	.12	.13	.09	.07	.11	.06	.07	.09	.05	.06	.08	.08
8-in. drain tile furnished and laid.. 6,000 "	.04¾	.06	.06½	.09	.08	.12	.05	.07	.04½	.08½	.08	.20	.13	.08	.13
6-in. " " " " " .. 12,000 "	.04	.05	.05	.08	.06	.09	.04	.05	.04	.06	.08	.15	.09	.07	.11
4-in. " " " " " .. 12,000 "	.02¾	.04	.03½	.06	.04	.07	.03	.03	.04	.03	.06	.10	.06	.05	.08
3-in. " " " " " .. 20,000 "	.02¼	.03	.03½	.04	.04	.07	.02½	.01½	.03½	.02½	.06	.08	.05	.04	.075
Trenchg and backfillg, 2 to 6 ft.. 22,500 "	.07½	.08	.10	.04	.13	.09	.15	.16	.13	.11	.11	.18	.20	.24	.13
" " " 6 " 8 " .. 33,300 "	.10½	.14	.14	.04½	.14	.19	.20	.23	.17	.22	.21	.25	.30	.35	.20
" " " 8 " 10 " .. 14,200 "	.21½	.19	.20	.10	.23	.27	.35	.35	.26	.31	.38	.32	.45	.47	.32
" " " 10 " 12 " .. 3,650 "	.37	.30	.32	.22	.33	.33	.75	.50	.35	.53	.80	.50	.54	.70	.48
" " " 12 " 14 " .. 1,150 "	.45	.45	.50	.50	.45	.49	1.00	.75	.60	.60	.90	.75	.65	1.08	.72
" " " 14 " 16 " .. 710 "	.90	.75	.67	.74	.55	.70	1.50	1.00	.85	.76	1.10	1.00	.85	1.36	.85
" " " 16 " 18 " .. 420 "	1.00	1.00	.78	.95	.75	.80	2.50	2.00	1.25	1.00	1.20	1.50	.95	1.70	1.35
" " " 18 " 20 " .. 150 "	1.00	1.25	.93	1.14	.75	1.00	3.00	3.00	1.50	1.23	1.25	2.00	1.10	2.20	2.10
" " " 20 " 22 " .. 120 "	1.50	2.00	1.20	1.45	.75	1.80	3.25	3.00	1.75	1.48	1.30	2.25	1.15	3.30	2.33
" " " 22 ft. and over 10 "	1.50	3.00	1.25	1.75	.75	2.00	3.25	4.00	2.50	1.66	1.40	3.00	1.20	3.89	3.00
Spruce timber in place ..... 50 M. ft...	21.00	12.00	14.50	16.00	14.00	20.00	15.00	12.00	20.00	19.00	20.00	20.00	30.00	15.00	25.00
Steam R. R. crossing ..... 100 ft.....	1.00	1.00	1.00	.50	2.00	1.50	1.00	1.00	4.00	1.00	1.25	1.00	1.00	1.25	1.00
Rock excavation ..... 2,500 cu. yds.	1.55	1.50	1.40	2.85	2.00	2.60	1.50	1.75	2.50	2.20	2.40	3.00	3.30	3.00	2.50
Cast-iron pipe in place ..... 30 tons...	35.00	35.00	35.00	22.00	30.00	30.00	30.00	26.00	33.00	27.50	26.00	25.00	26.65	42.00	30.00
Iron and steel ..... 5,000 lbs.....	.05	.03	.06	.06	.05	.10	.05	.04	.03	.10	.05	.05	.03½	.05	.05
Flushtanks: Van Vranken, single.. 72 each...	43.00	45.00	42.00	46.00	55.00	40.00	40.00	28.00	45.00	60.00	45.00	21.50	57.00	65.00	68.00
Van Vranken, double ..... 3 " ...	55.00	60.00	60.00	65.00	55.00	60.00	70.00	28.00	70.00	95.00	45.00	44.00	75.00	90.00	125.00
Miller, single ..... 72 " ...	.....	45.00	.....	.....	55.00	40.00	.....	28.00	45.00	60.00	55.00	21.50	62.00	68.00	.....
" double ..... 3 " ...	.....	60.00	.....	.....	55.00	60.00	.....	28.00	70.00	95.00	55.00	44.00	80.00	90.00	.....
Others, single ..... 72 " ...	.....	45.00	.....	46.00	.....	.....	.....	.....	.....	.....	45.00	45.00	.....	65.00	.....
" double ..... 3 " ...	.....	60.00	.....	65.00	.....	.....	.....	.....	.....	.....	45.00	80.00	.....	90.00	.....
Manholes: No. 1, under 8 ft. ..... 63 " ...	19.00	20.00	30.00	18.00	25.00	30.00	26.00	19.00	33.00	35.00	36.00	32.50	31.75	45.00	39.00
No. 1, over 8 ft. ..... 30 " ...	25.00	25.00	40.00	22.00	35.00	40.00	30.00	19.00	38.00	45.00	43.00	35.00	46.75	40.00	50.00
No. 2, under 8 ft. ..... 2 " ...	25.00	30.00	30.00	19.00	25.00	45.00	30.00	19.00	45.00	40.00	41.00	40.00	36.75	30.00	48.00
No. 2, over 8 ft. ..... 10 " ...	29.00	35.00	43.00	24.00	35.00	50.00	35.00	19.00	50.00	.00	44.00	50.00	65.00	50.00	60.00
Lampholes ..... 28 " ...	2.50	3.00	3.00	4.00	5.00	8.00	8.00	7.00	5.00	4.50	4.00	5.00	3.00	9.50	7.00
Concrete: Nat. American ..... 100 cu. yds.	4.00	4.00	4.00	3.00	4.50	5.00	4.00	2.00	3.00	4.75	4.00	4.00	4.95	4.50	6.00
Portland ..... 200 " "	5.90	6.00	5.50	4.50	6.00	6.50	5.50	3.00	5.50	8.00	5.00	5.25	6.60	9.00	7.00
Rubble masonry, ... 20 " "	6.00	9.00	7.50	7.00	10.00	8.00	5.00	6.00	7.00	6.50	6.00	5.25	4.95	9.00	7.00
Embankment ..... 1,000 " "	.40	.60	.40	.50	.60	.50	.25	.23	.75	.60	.40	.75	.33	.35	.75
Dredging ..... 500 " "	.50	1.00	1.00	1.00	.80	.50	1.00	.75	1.50	1.00	.60	2.00	1.00	1.25	2.00
Bailing and draining	200.00	300.00	300.00	300.00	200.00	500.00	500.00	450.00	1000.00	350.00	500.00	1000.00	800.00	1100.00	3500.00
Total	$41,355	$41,658	$44,275	$46,372	$50,055	$50,796	$50,839	$50,882	$52,013	$52,724	$56,656	$57,325	$68,043	$73,084	$76,336

SEWER.—New York, N. Y.—The following bids were received by Louis F. Haffen, Comr., 2622 Third Ave., July 18 for constructing a sewer in Cromwell Ave., Jerome to Inwood Ave.:

Sewers: Quantities.	J. C. Rodgers & Son.	Michael Dunn.	M. J. Leahy.	Bart. Dunn.
Class I. .. 4,221 ft.....	$18.00	$11.00	$17.45	$15.64
Class II. . 45 "	10.00	5.00	6.00	6.50
12-in. pipe 70 "	1.50	1.50	1.00	2.00
Spurs .....1,160.....	.50	.50	1.00	.60
Manholes .. 25.....	70.00	50.00	55.00	60.00
Rec'g basins 3.....	150.00	150.00	150.00	1.70
Rock excav. 16,000 cu. yds.	.01	2.10	.20	2.50
Concrete ... 50 " "	6.00	4.00	4.00	3.00
Rubble mas. 250 " "	5.00	4.00	2.00	4.50
Brkn stone . 1,500 " "	2.50	2.00	.40	1.00
Piles .....20,000 ft.....	.25	.10	.10	.20
Lumber .... 200 M. ft...	20.00	20.00	30.00	15.00
18-in. pipe . 100 ft.....	1.50	1.00	1.15	2.00
Days to complete work....	200	200	175	300
Total	$94,579	$95,181	$92,096	$120,330

MISCELLANEOUS CONTRACTS.

STEAM ROAD ROLLER.—Worcester, Mass.—The street commissioner has been directed to purchase a steam road roller to cost $3,000.

FIRE HOSE.—Baltimore, Md.—Bids are asked until Aug. 3 for furnishing about 9,000 ft. of 3 and 2½-in. fire hose. A. R. Cathcart, Pres. Comrs.

CEMENT.—Brooklyn, N. Y.—Bids are asked until July 28 for furnishing 3,000 to 3,500 bbls. of Portland cement at Wallabout Market lands. T. B. Willis, Comr. Cy. Wks.

STEEL CHIMNEY.—Washington, D. C.—Bids are asked until July 25 for erecting a steel smoke chimney at the government printing office. T. E. Benedict, Pub. Printer.

LEVEE WORK.—Memphis, Tenn.—Bids are asked until July 30 for the construction and repair of levees in Upper Yazoo levee district. Capt. Graham D. Fitch, U. S. Engrs.

DIKE WORK.—New York, N. Y.—Bids are asked until Aug. 15 for constructing and repairing dikes in Hudson River, as stated in our advertising columns. Col. G. L. Gillespie, U. S. Engrs.

WIRE FENCE.—Washington, D. C.—Bids are asked until Aug. 10 for furnishing materials and erecting 18,000 ft. of wire fence, with gates, at Wakefield, Va. Col. John M. Wilson, U. S. Engrs.

STONE AND BRUSH JETTY.—Cleveland, O.—Bids are asked until Aug. 7 for constructing a stone and brush jetty from Cedar Point, at Sandusky Harbor, O. Lt.-Col. Jared A. Smith, U. S. Engrs.

WIRE FENCE.—Washington, D. C.—Bids are asked until Aug. 5 for furnishing about 1,200 ft. of wire fencing for the battlefield of Antietam, Va. Maj. Geo. W. Davis, Pres. Bd., War Records Office.

CONCRETE COPING.—East Marion, N. Y.—Bids are asked until July 29 for a concrete coping on the sea wall between East Marion and Orient, Suffolk county. Geo. W. Aldridge, Supt. Pub. Wks., Albany.

REMOVAL OF WRECKS.—St. Augustine, Fla.—Bids are asked until Aug. 20 for the removal of certain wrecks from Key West Harbor, as stated in our advertising columns. Lt.-Col. W. H. H. Benyaurd, U. S. Engrs.

ADDITION TO VAULT.—Brooklyn, N. Y.—Bids are asked until July 28 for building an addition to a vault in the building occupied by the department of health, at 38 and 40 Clinton St. Theodore B. Willis, Comr. Cy. Wks.

CRIBS.—Detroit, Mich.—Bids are asked until July 31 for furnishing materials, constructing, sinking and filling seven cribs in Hay Lake Channel, as stated in our advertising columns. Maj. M. B. Adams, U. S. Engrs.

STEAM ENGINE, LATHE DRILL.—Baltimore, Md.—Bids are asked until Aug. 1 for furnishing the water department with one horizontal 50-HP. stationary steam engine, one 18-in. swing engine lathe, to turn 10 ft. between centers, and one No. 2 radial drill. Wm. L. Kenly, Ch. Engr.

DISINFECTING PLANT.—Pittsburg, Pa.—Bids are asked until July 31 for furnishing the bureau of health and erecting on municipal hospital grounds the following machinery, apparatus and appliances: One jacketed steam disinfecting chamber, having a capacity, in inside measurement, of not less than that represented by a chamber 4 ft. 4 ins. wide, 5 ft. 4 ins. high, and 9 ft. long, together with the necessary boiler, air exhausters, indicators, gages, thermometers, valves, pipes, cars, tracks, racks, cranes, magnesia covering and all such other appliances, apparatus and fixtures as may be necessary to the successful operation of a thorough and effective system of steam disinfection, under pressure. J. O. Brown, Dir. Dept. Pub. Safety.

FIRE ENGINES.—Chicago, Ill.—Bids are asked until July 30 for furnishing two second-class steam fire engines and three third-class combination steam fire engines (engine and hose wagon combined), said engines to be double pump, crane neck, with improved patent circulating coil boiler, made of homogeneous steel and of sufficient strength to bear double the greatest pressure ever required for fire service; to have brass, nickel-plated dome; pumps to be entirely of gun metal, with improved cone valves and relief valve, and engine to be supplied with improved equalizing platform spring rigging in front and half elliptical springs in rear. D. J. Sweeney, Fire Marshal.

THIS OFTEN HAPPENS.

Pella, Ia., July 18, 1896.

Engineering News Publishing Co.,
New York city.

Gentlemen: I cannot do otherwise than consider the Engineering News an excellent medium through which to make known the wants of any and all parties desiring bids upon work pertaining to water service, as the small advertisement given two insertions in your publication brought us almost a deluge of inquiries from contractors, supply men, builders, etc., so much so that we did not have specifications enough for all, although we had prepared what we thought to be an ample supply.

Yours truly, D. S. Huber,
Chn. W. W. Com.

BUILDINGS, ETC.

COLLINS STATE HOMEOPATHIC HOSPITAL, COLLINS, N. Y.

Sealed proposals will be received by the Board of Managers of the Collins State Homeopathic Hospital until 10 o'clock a. m., Aug. 4, 1896, for constructing an Administration Building and one hospital wing, including plumbing, heating, ventilating and electric work and appurtenances, at Collins, N. Y., aggregating in cost about eighty thousand dollars ($80,000) in accordance with plans and specifications on file with August C. Esenwein, Architect, 707 Mooney Building, Buffalo, N. Y.

Each proposal must be made on blanks provided by the architect, enclosed and addressed as provided in the specifications.

Each proposal must be accompanied by a bond as provided by the specifications.

Proposals will be received upon the whole or any part of said work.

Plans and specifications may be seen and bid blanks secured at the office of the architect.

The right to reject any or all bids is expressly reserved by the Board of Managers.

WILLIAM TOD HELMUTH, M. D.,
ASA STONE COUCH, M. D.,
FRED. J. BLACKMON,
Board of Managers.

AUGUST C. ESENWEIN, Architect. 30-1t

SEWERS.

MONTICELLO, ILL.

Sealed proposals will be received at the office of the City Clerk of the City of Monticello, Illinois, up to 8 o'clock p. m., of August 4, 1896, for constructing sanitary sewers. The work will consist approximately of the following: 3,283 lineal ft. 6-in. pipe sewer, 383 lineal ft. 8-in. pipe sewer, 560 lineal ft. trenching and backfilling between 4 and 6 ft., 1,676 lineal ft. trenching and backfilling between 6 and 8 ft., 1,340 lineal ft. trenching and backfilling between 8 and 10 ft., 100 lineal ft. trenching and backfilling between 10 and 12 ft., 8 manholes, 4 flush tanks, together with lampholes.

Plans and specifications are on file at the office of the City Clerk, and blank forms for bids and requirements for bidding may be had on application to the City Clerk or City Engineer.

The City Council reserves the right to reject any and all bids for any reason they may deem sufficient.

D. E. WIDDERSHEIM,
RAY S. CARBERRY, City Clerk.
Civil Engineer.

Monticello, Ill., July 20, 1896. 30-1t

RESERVOIR.

TYRONE, PA.

Bids will be received by the Tyrone Gas & Water Co. for the construction of a Reservoir, until noon, Aug. 1, 1896.

Plans and specifications may be seen at the office of the Engineer, Tyrone, Pa.

All bids must be indorsed "Bid for Reservoir," and addressed to

C. A. MORRIS, Secretary,
30-1t Tyrone Gas & Water Co.

U. S. ENGINEER OFFICE, Army Building, New York, N. Y., July 10, 1896.—Sealed proposals for constructing and repairing DIKES in Hudson River, N. Y., will be received here until 12 m., August 15, 1896, and then publicly opened. Information furnished on application. G. L. GILLESPIE, Col., Engrs. 30-3t

PAVING.

BRADFORD, PA.,

Sealed proposals will be received by the undersigned up to 5 o'clock p. m., Monday,

JULY 27, 1896,

for the paving of Jackson Ave., in the City of Bradford (except that portion thereof which the Bradford Electric Street Railroad Company is required by ordinance to pave). Also for the paving of Walker Ave. Both streets (or avenues) to be paved according to the plans and specifications of the City Engineer, now on file in my office. Each bid to be accompanied by a certified check in the sum of $300, to be forfeited to the city in case the successful bidder fails to enter into a contract for the construction of said pavement within ten (10) days from the date of the awarding of the same. Councils reserve the right to reject any and all bids.

JAS. A. LINDSEY, City Clerk,
Rosenberg & Michael Block.

Bradford, Pa. 30-1t

OFFICE OF LIGHT-HOUSE ENGINEER, 11th District, Detroit, Mich., July 10, 1896.—Sealed proposals, addressed to the undersigned, will be received at this office until 2 o'clock p. m., of July 31, 1896, and opened immediately thereafter, for furnishing 40,968 feet B. M. of white pine timber; 75,832 feet B. M. of hemlock or Norway pine timber; 15,232 feet B. M. of white oak plank; 460 cords of foundation and filling stone; 1,708 lbs. of screw and washer bolts; 6,125 lbs. of drift bolts and spikes; 1,450 lbs. of guy rods, strap fastenings and angle irons, and constructing, sinking and filling SEVEN CRIBS in Hay Lake Channel, St. Mary's River, Michigan. Specifications, forms for proposals and detailed information can be had on application. MAJOR M. B. ADAMS, Corps of Engineers, U. S. A., Light-House Engineer.

U. S. ENGINEER OFFICE, St. Augustine, Fla., July 20, 1896. To whom it may concern: Whereas, the navigation of the Man of War Harbor at Key West, Fla., is obstructed and endangered by certain wrecks, notice is hereby given to all persons interested in said wrecks, and property pertaining thereto, that if within 30 days from date of this advertisement, they shall not have signified their intention to me and taken preliminary steps to REMOVE SAID WRECKS, etc., as soon as practicable the same will be considered as abandoned and derelict and they will be removed by the United States under authority of law. The wrecks are as follows: Bark "Marcelo," Schooner "Adelaide Baker," Bark "Brandon," Schooner "Rosalie," Bark "Anto," Ship "Marie Frederika," Bark "Almora," Steamer "Cochran," and old "Dry Dock." Sealed proposals, in triplicate, for the removal of all these wrecks, etc., will be received here until 11 a. m., August 20, 1896, and publicly opened. Government reserves right to reject any or all bids, and to waive any informalities. For information apply here. By authority of the Secretary of War. W. H. H. BENYAURD, Lt. Col., Engrs. 30-4t

TREASURY DEPARTMENT, Office Supervising Architect, Washington, D. C., July 21, 1896.—Sealed proposals will be received at this office until 2 o'clock p. m., on the 21st day of August, 1896, and opened immediately thereafter, for all the labor and materials required for the erection and completion (except heating apparatus) of the U. S. CUSTOM HOUSE AND POST OFFICE BUILDING at Racine, Wisconsin, in accordance with the drawings and specifications, copies of which may be had at this office or the office of the Superintendent at Racine, Wisconsin. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated for opening will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Erection and Completion (except heating apparatus) of the U. S. Custom House and Post Office Building at Racine, Wisconsin, and addressed to WM. MARTIN AIKEN, Supervising Architect.

WATER-WORKS.

SILVER CREEK, N. Y., July 9, 1896.

Sealed proposals will be received by the Board of Water Commissioners of the Village of Silver Creek, N. Y., up to 7 o'clock p. m.,

AUGUST 1, 1896,

for furnishing the materials and constructing a gravity system of water-works for said village. There will be required approximately the following:

1,430 tons (about 13¼ miles) of cast-iron pipe.
73 fire hydrants.
87 grate valves and boxes.
Concrete lined reservoir.

Bids will be received for constructing the work independent of furnishing material, for furnishing any of the materials mentioned above and for constructing the works complete, including furnishing material. A certified check equal to 2% of the amount of the bid must accompany each bid.

Plans may be seen and specifications and blank forms of proposal procured at the office of the Secretary of the Board, Silver Creek, N. Y., or at the office of the engineer, J. F. Witmer, Rooms 65 and 66 Chapin Block, Buffalo, N. Y.

The right is reserved to reject any and all bids.

JOHN B. WEBSTER,
FRANK P. STEWART,
HUGO E. FENSKE,
CHAS. L. O'NEIL,
Board of Water Commissioners.

J. F. WITMER, Engineer,
Buffalo. 30-2t

WATER-WORKS.

WALKERTON, IND.

The Walkerton Water-Works Company, of Walkerton, Indiana, is now ready to receive bids for the erection of a tower, pumping station and for the equipping of a complete system of water-works, according to plans and specifications now on file in the office of the secretary of the Walkerton Water-Works Company.

A copy of the plans and specifications may be had by addressing

WILLIAM CLEM, Secretary.

Walkerton, Ind., July 17, 1896. 30-1t

PAVING.

BELOIT, WIS.

Bids are asked until Aug. 7, 1896, at 12 o'clock noon for paving with macadam and brick about 8,000 sq. yds. in certain streets in the City of Beloit, Wisconsin. Address

BOARD OF PUBLIC WORKS,
30-2t Beloit, Wis.

POLICE STATION.

CARBONDALE, PA.

Sealed proposals will be received by the City Clerk of Carbondale, Pa., until 8 p. m., Aug. 10, for the furnishing of material and labor for the remodeling of the City Police Station, according to plans and specifications on file in the City Engineer's Office.

Bidders will be required to enclose cash or certified check in the sum of $200 as a guarantee of good faith and that the successful bidder will enter into a contract within ten days if awarded the same.

The city reserves the right to reject any or all bids.

T. L. McMILLAN,
30-2t City Clerk.

MACADAM ROAD.

LONG BRANCH, N. J.

Bids will be received until 12 o'clock m., Aug. 10, 1896, by the Board of Chosen Freeholders of Monmouth County, N. J., for the construction of five miles of macadam road with gravel wings, at Long Branch, N. J. For further information, specifications, etc., address JOHN GUIRE, Chairman of Road Committee, or W. H. DE NYSE, Engineer, Long Branch, N. J. 30-2t

WATER-WORKS.

DOON, IOWA.

Notice is hereby given that A. N. Thompson, Town Clerk of the incorporated town of Doon, Lyon County, Iowa, will receive sealed bids for the construction of a system of water-works in said town of Doon (according to plans and specifications now on file in my office) up to six o'clock Monday evening, August 3, 1896. Each bid to be accompanied by a certified check in the sum of five hundred ($500) dollars conditioned that the bidder will enter into a written contract with said town for the amount specified in his bid should the town award to him the contract. Said contract to be awarded to the lowest responsible bidder. The town reserves the right to reject any or all bids. Plans and specifications may also be seen at the office of L. F. Wakefield, in Sioux City, Iowa.

A. N. THOMPSON,
Town Clerk.

Dated Doon, Iowa, July 7, 1896. 30-1t

SEWERS.

WOONSOCKET, R. I.

Sealed proposals will be received by the Board of Sewer Commissioners of the City of Woonsocket, R. I., at their office, Room 15 Longley Building, until 2 p. m., Monday, August 17, 1896, for constructing Sections Nos. 1, 2 and 3 of the sewerage system of said city.

Section 1. River wall, storage tanks, engine house foundations, grading, and a short piece of 36-in. brick sewer.

Section 2. 2,072 ft. 36-in. brick sewer and appurtenances; 148 ft. 32-in. brick sewer and appurtenances; 4 siphons under the Blackstone River and trench.

Section 3. 2,130 ft. 30-in. brick sewer and appurtenances.

Each section will be considered a separate contract.

Contractors may bid upon one or more sections.

Drawings and specifications may be seen and blank forms for proposals may be obtained at the office of the City Engineer, Room 20 Granite Block, Woonsocket, R. I.; also at office of Rudolph Hering, C. E., 277 Pearl St., New York.

Proposals must be made upon the blank forms furnished.

Each proposal for each section must be accompanied by a certified check for five hundred ($500) dollars, drawn to the order of Samuel P. Cook, City Treasurer of the City of Woonsocket, as surety that if the proposal is accepted a contract will be entered into.

The Board of Sewer Commissioners reserve the right to reject any and all bids.

FRANK E. HOLDEN,
GEORGE S. READ,
PHILIPPE BOUCHER,
Board of Sewer Commissioners.

July 14, 1896. 30-2t

Contract Work Should Always be Advertised in a Paper Read by Contractors.

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